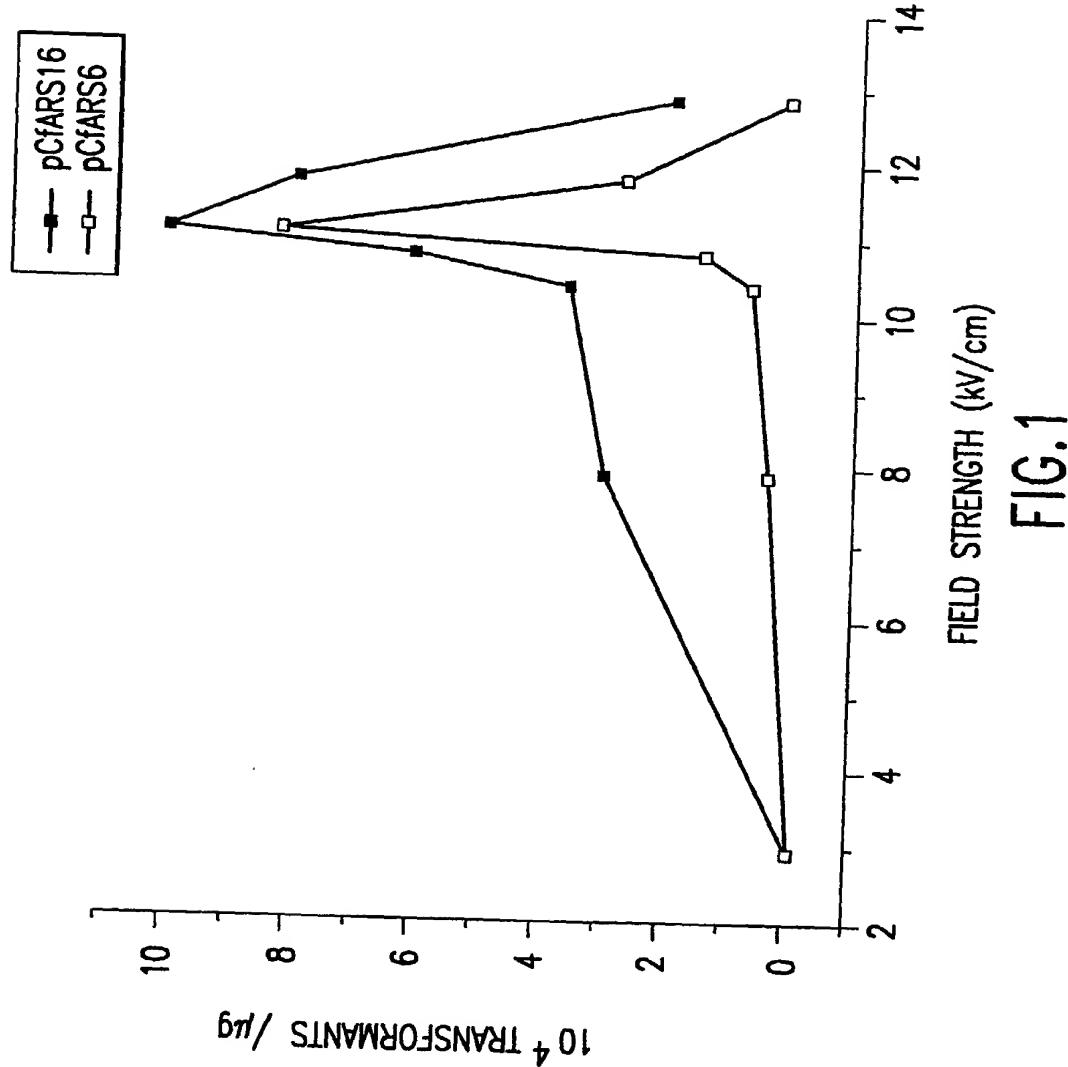


Appl. No. 09/903,508, Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM, Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast



Appl. No. 09/903,508, Filed, July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

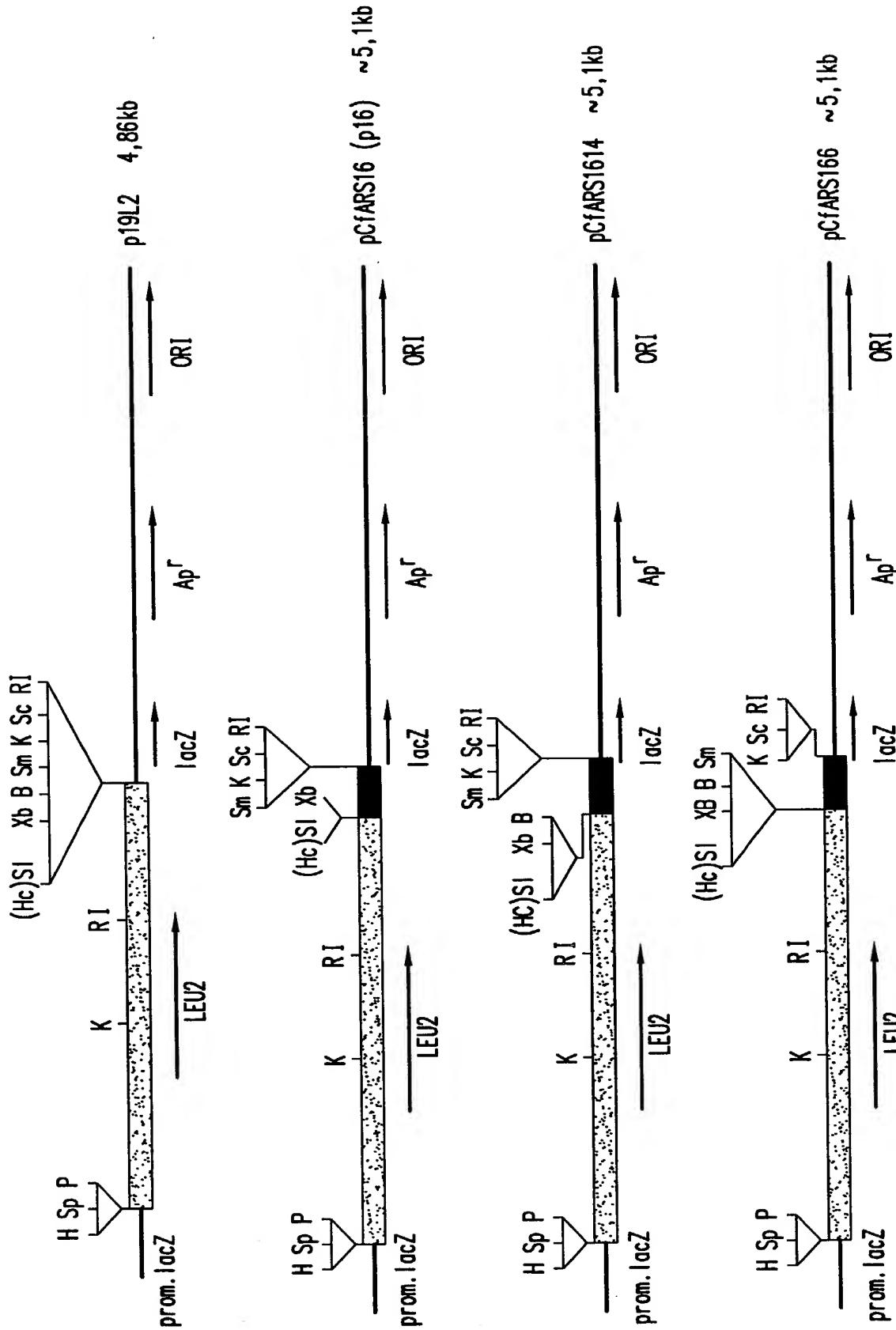
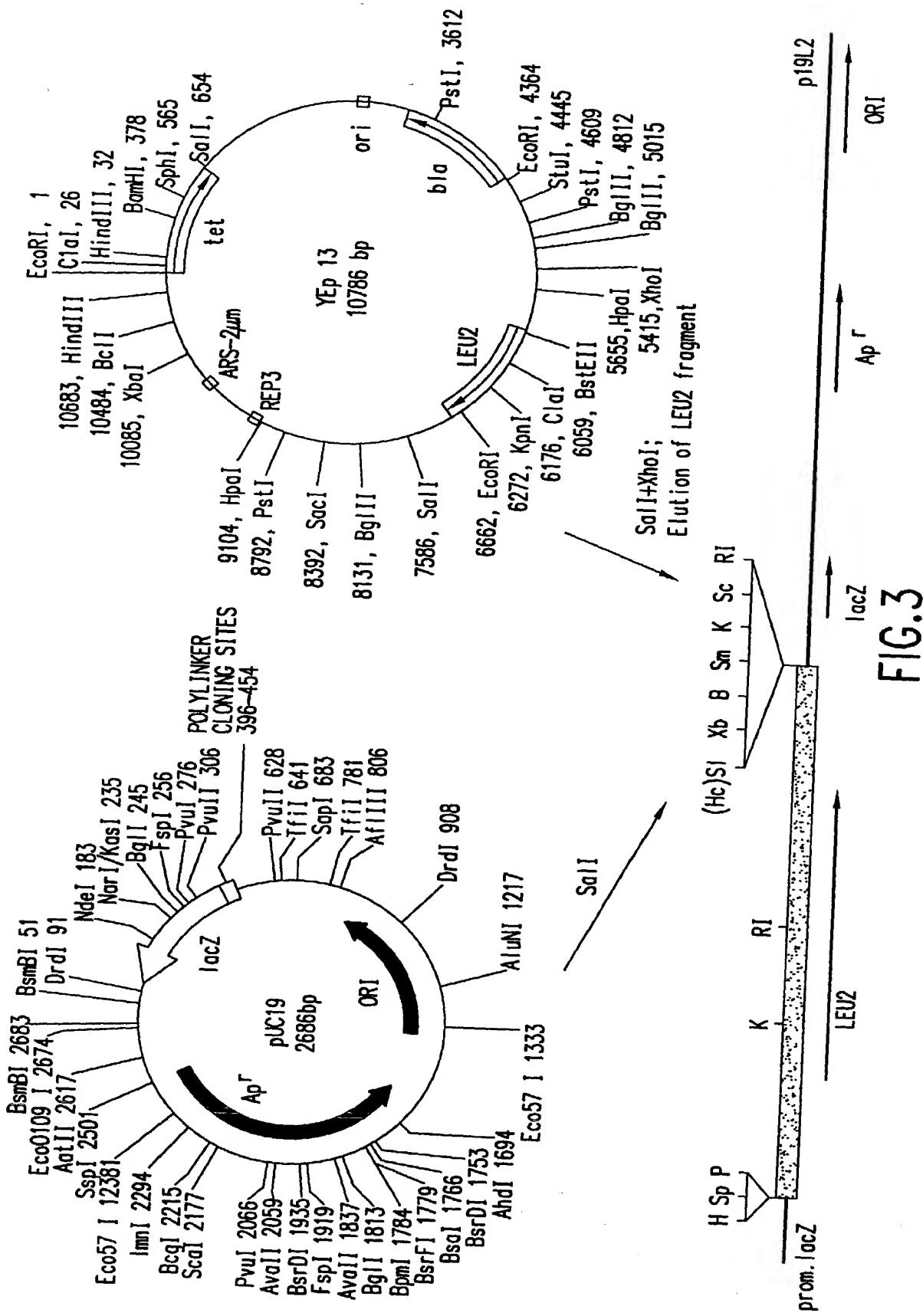


FIG. 2



Appl. No. 09/903,508; Filed: July 13, 2001
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Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

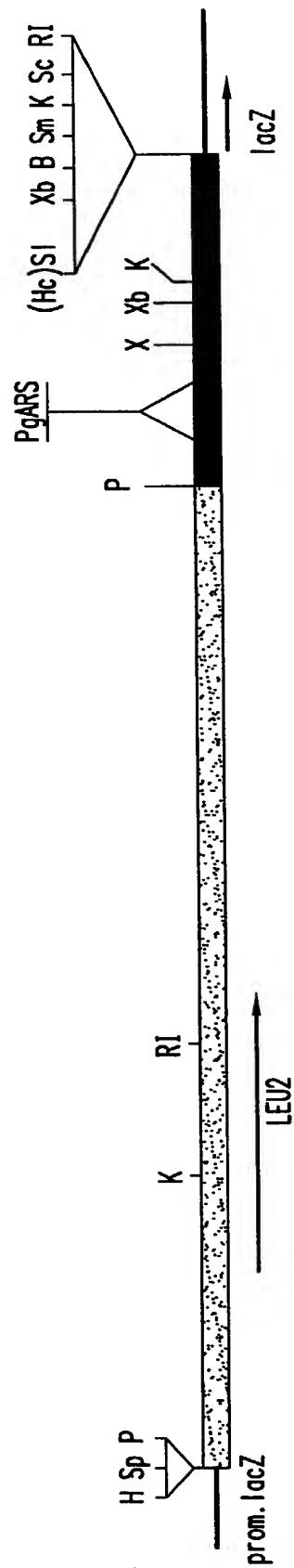


FIG. 4

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavimogenic Yeast

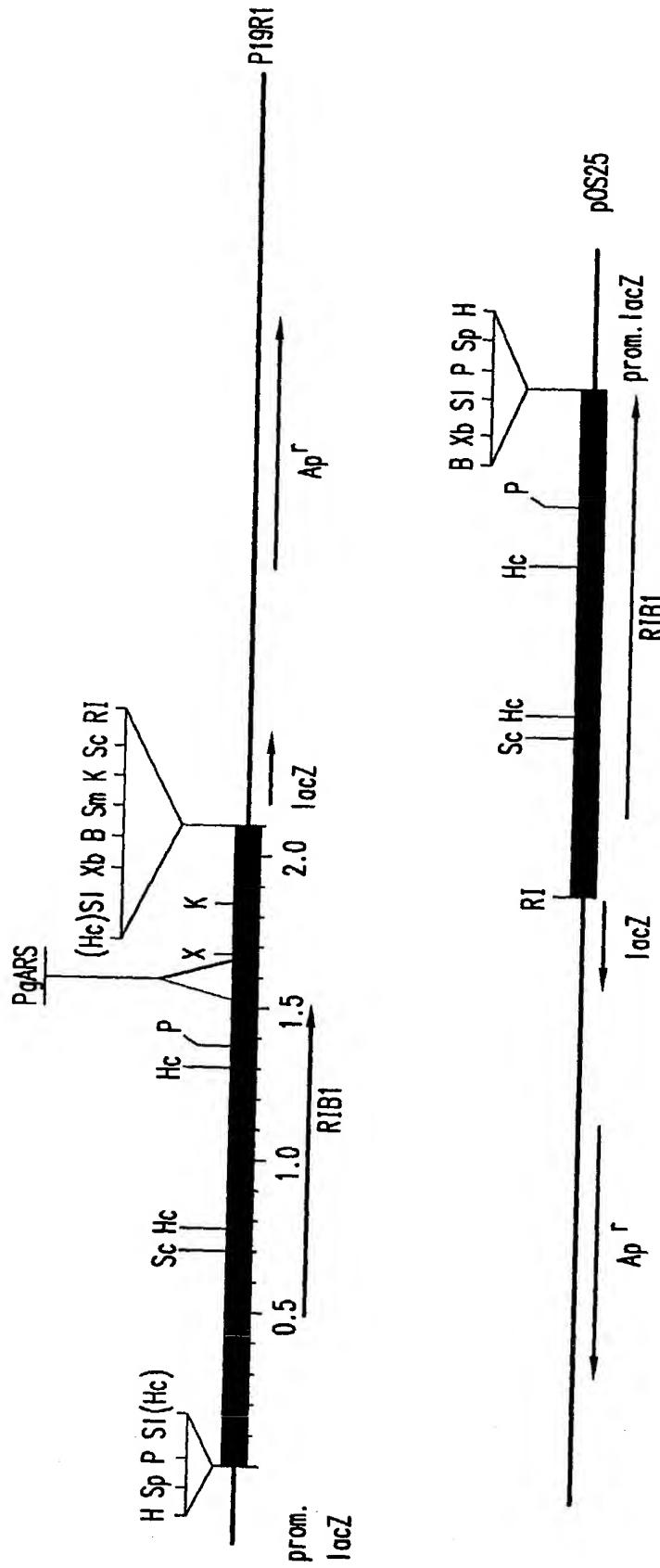


FIG. 5

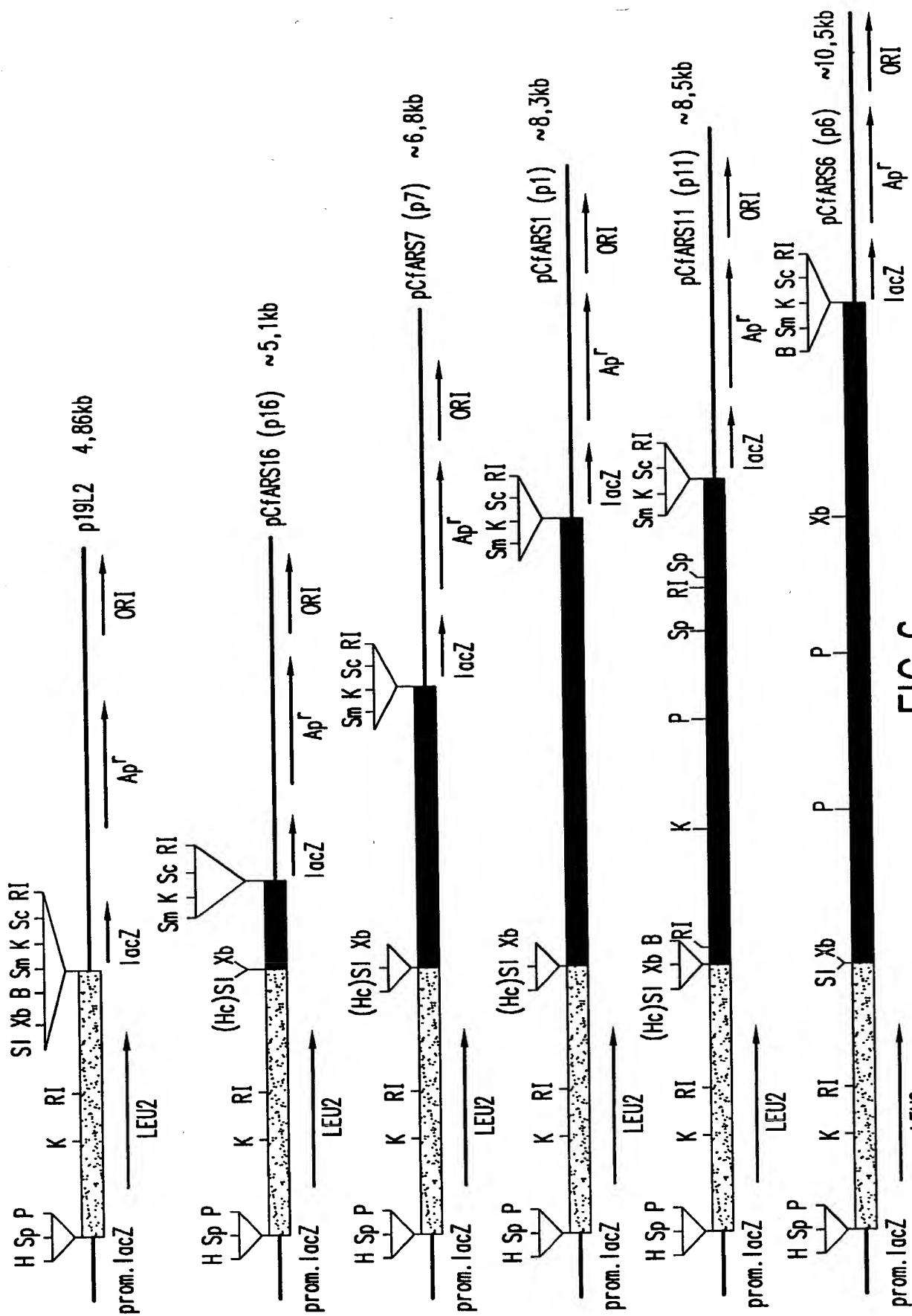


FIG. 6

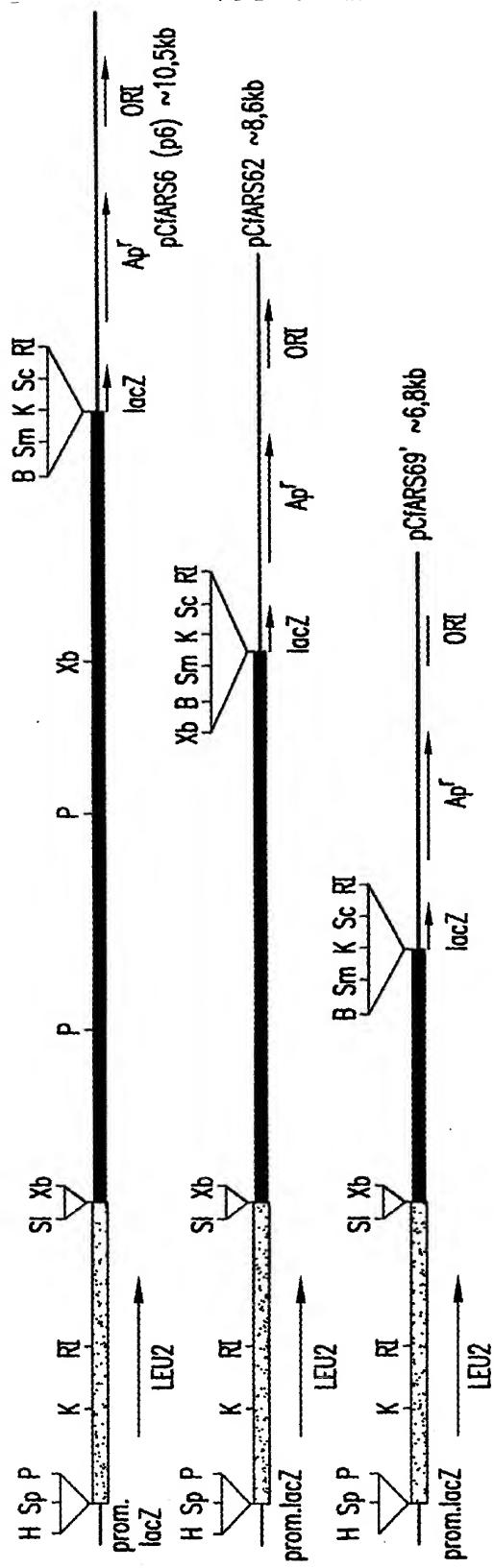


FIG. 7

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2680
Title: Transformation Systems for Flavinogenic Yeast

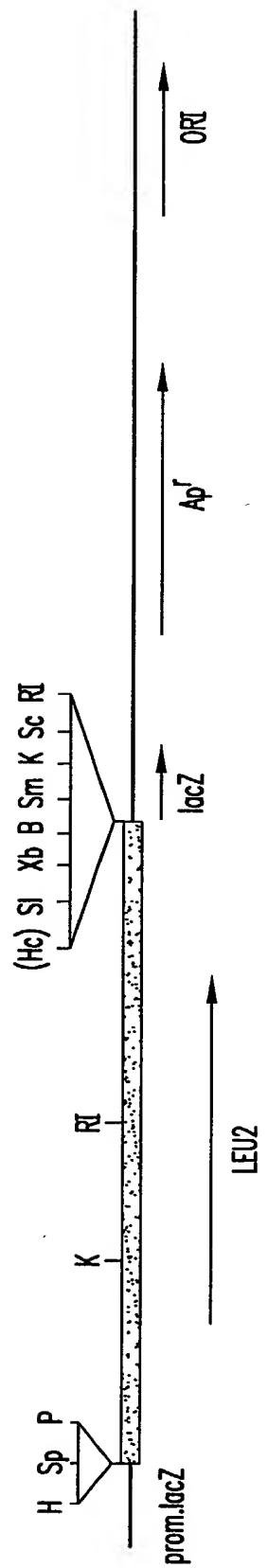
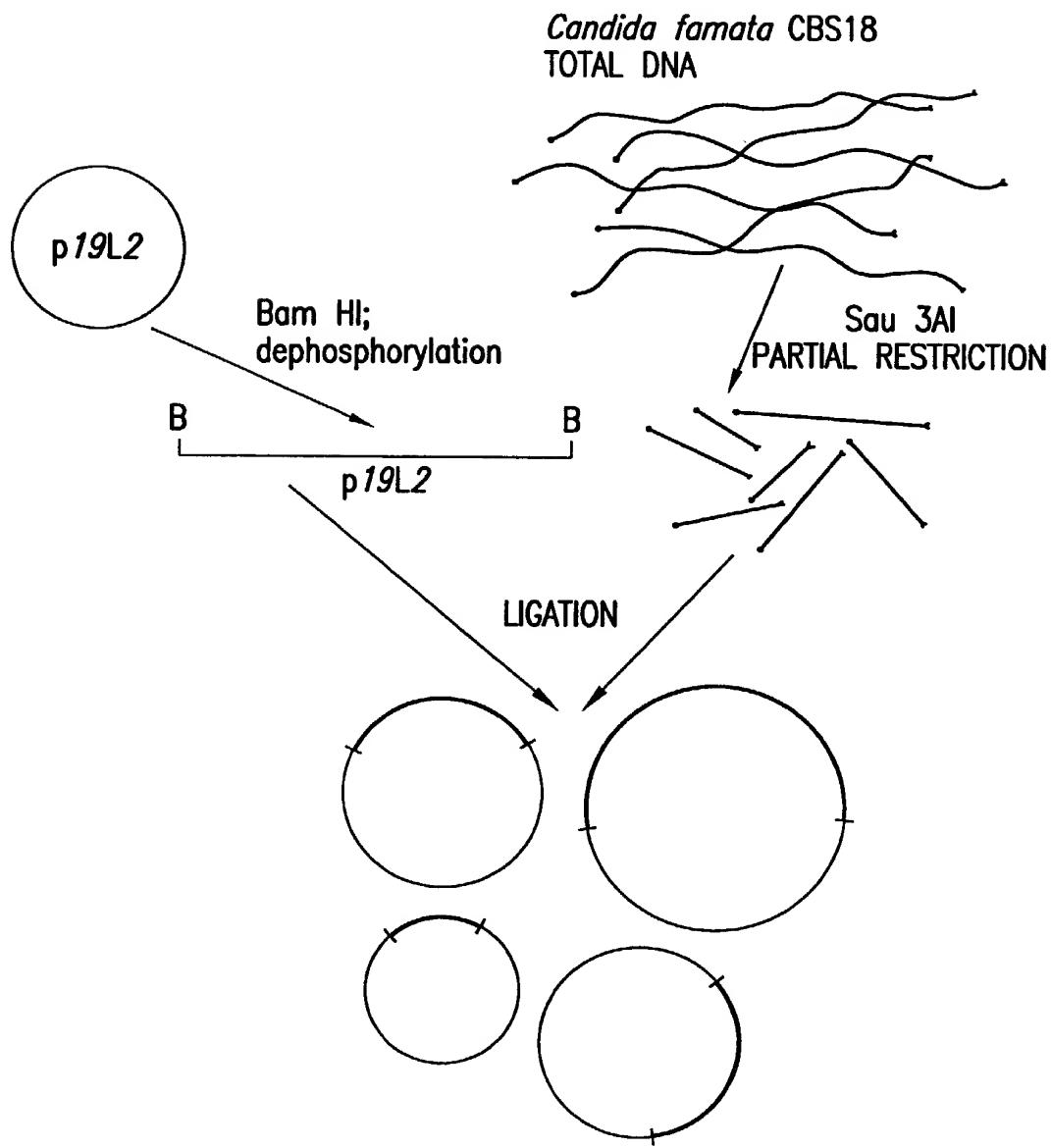


FIG. 8

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel. 202/371-2600
Title. Transformation Systems for Flavinogenic Yeast



Candida famata CBS18 GENOME LIBRARY
ON THE VECTOR p19L2

FIG. 9

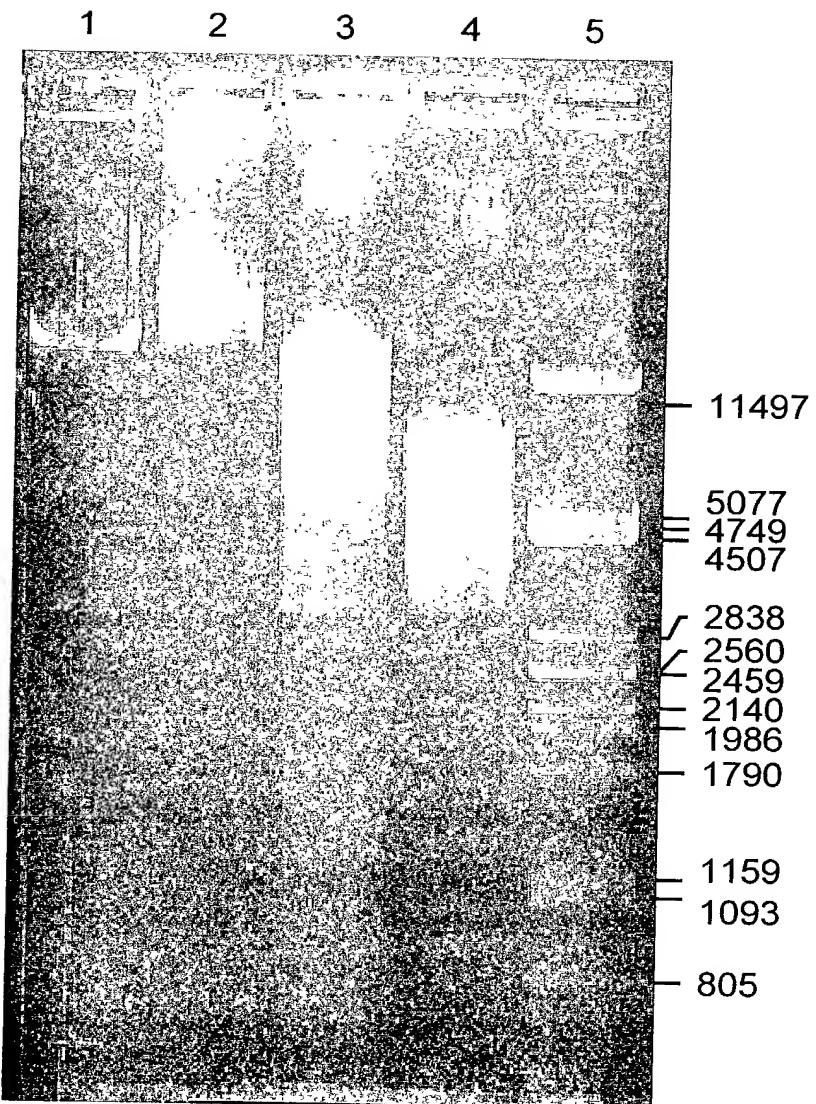


FIG.10

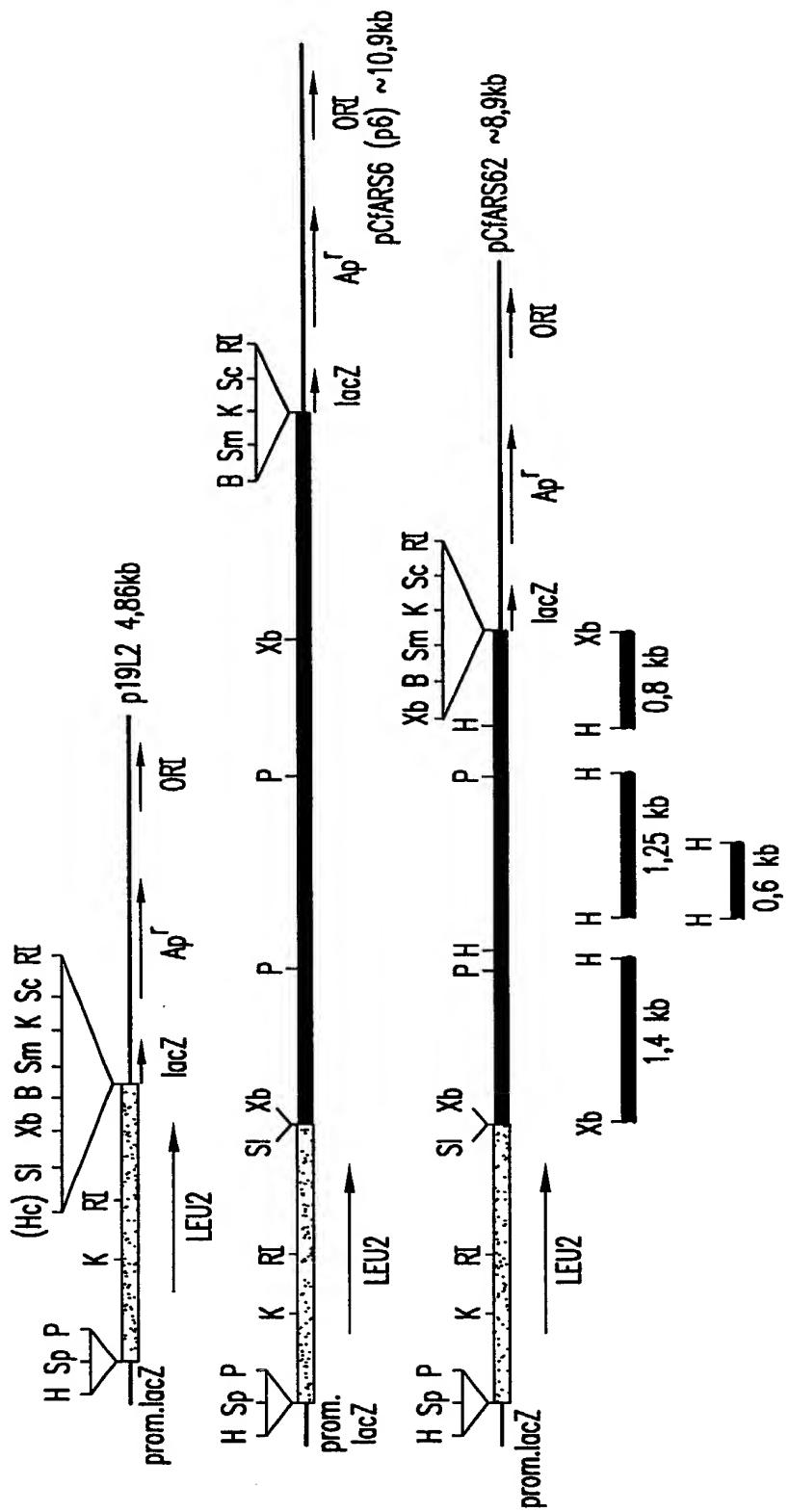


FIG. 11

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

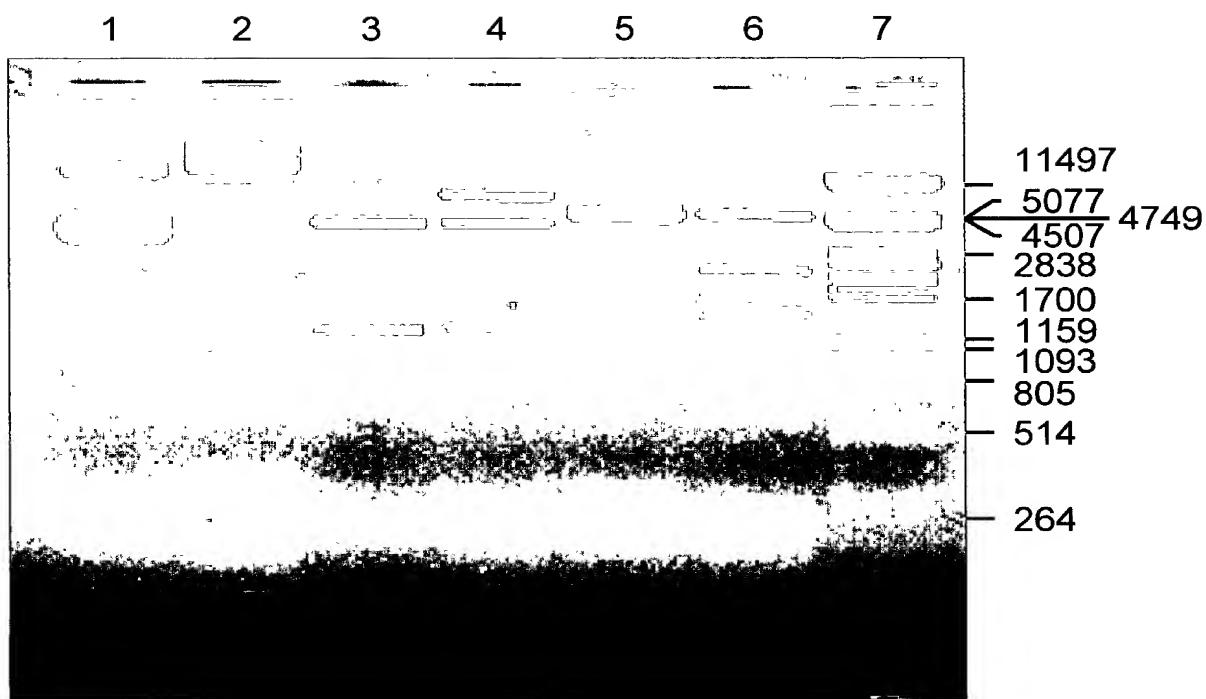


FIG. 12

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s). Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

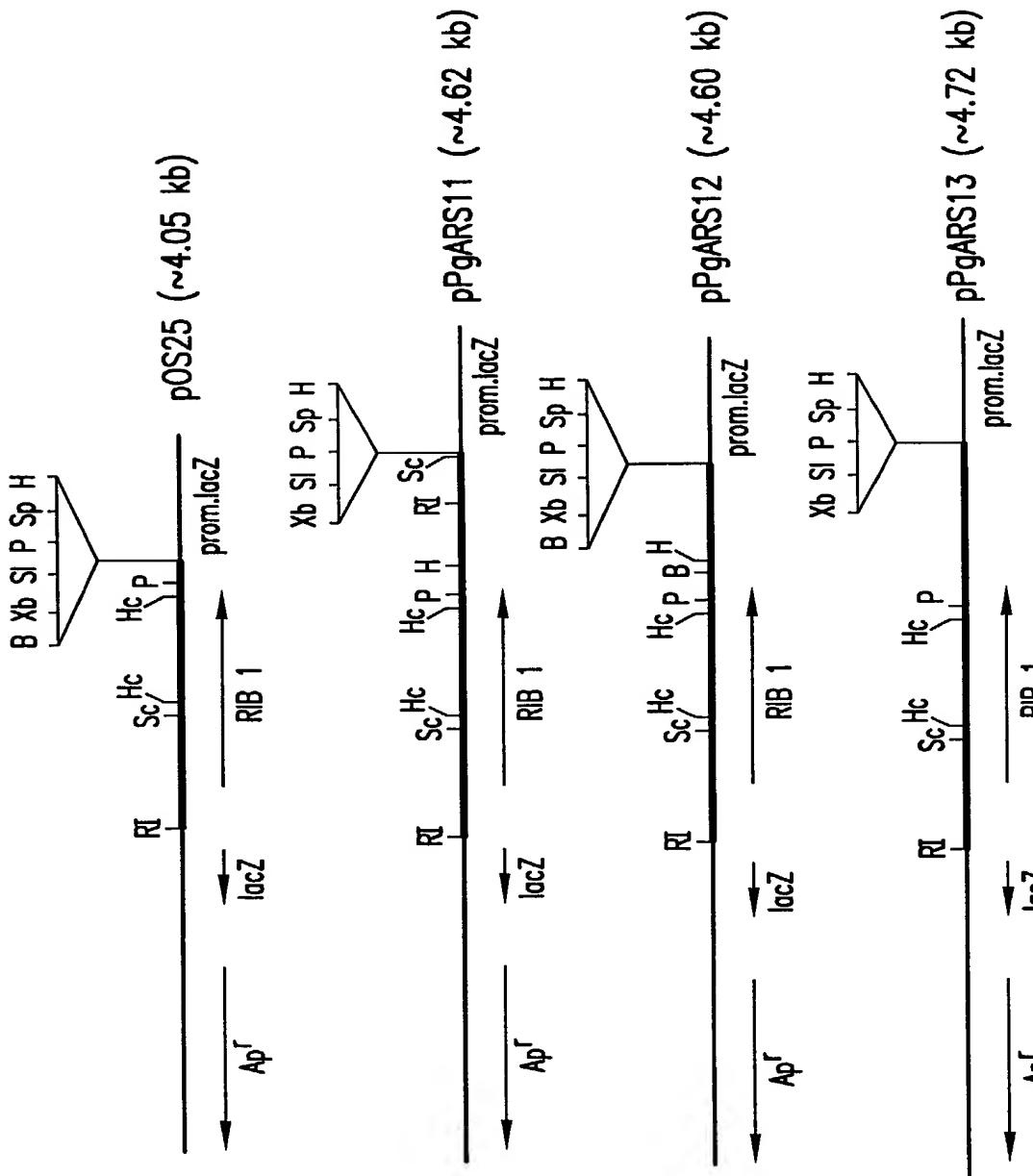


FIG. 13

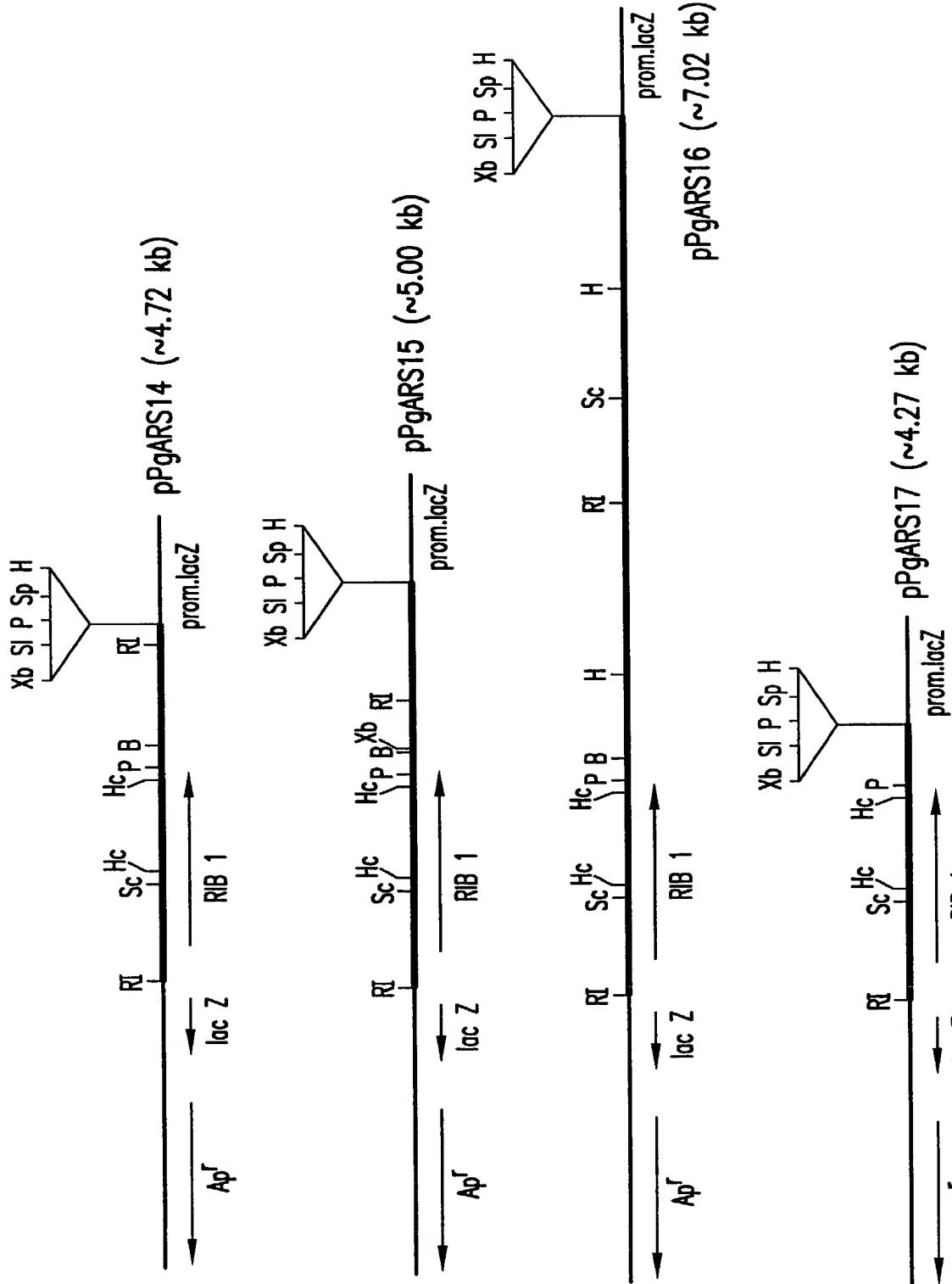


FIG. 14

<400> 1

cttgactgtat tacgaattcg agctcggtac ccggggatca tgaatgctag tcttttaca 60
 ctgaatattt ttttaacgt ttttaataa ttttgcatac attaagaaa aaccacaaat 120
 ggtttccaa aatttaaatt gattttttag aaagtcctaa aaaatagaat cataccaaat 180
 aaagaacaac taaaagtcac tatgacaaat tcagaaatac aatcgatga tccgttcatg 240
 gataaagctg caaagtcaca agcaaggcta actaagatcc tctaggggaa tcctctagag 300
 tcgactacgt cgtaaggcc gtttgcatac gagtaaaatt cttgagggaa ctttcaccat 360
 tatggaaat ggtcaagaa ggtattgact taaactccat caaatggtca ggtcattgag 420
 tgtttttat ttgttgtatt tttttttt tagagaaaat cctccaatataataaattttagg 480
 aatcatagtt tcatgattt tagagaaaat cctccaatataaattttagg aatcatagtt 540
 tcatgattt ctgttacacc taacttttgc tggngccc tcctccttgc caatattaat 600
 ctgttacacc taacttttgc tggngccc tcctccttgc caatattaat gttaaagtgc 660
 aattctttt ctttatcacg ttgagccatt agtatcaatt gttaaagtgc aattctttt 720
 ctttatcacg ttgagccatt agtatcaatt tgcttacctg tattccttta catcctcctt 780
 tttccttc ttgataaaatg tgcttacctg tattccttta catcctcctt tttccttc 840
 ttgataaaatg tatgttagatt gcgtatatac ttgcgtctac cctatgaaca tattccattt 900
 tatgttagatt gcgtatatac ttgcgtctac cctatgaaca tattccattt tgtaatttgc 960
 tgtcgnttctt attatgaatt tcattataa aggttatgtt tgtaatttgc ggcgtttcta 1020
 ttatgaattt cattataaa gtttatgtcc aatatcataa aaaaagagaaa tcttttaag 1080
 caanggattt cttaaactcaa atatcataaa aaaagagaat cttttaagc aaggattttt 1140
 cttaaactnt tcggggacgc atccccgcctt cgnggactg gtggaccctt aaatctnttc 1200
 ggcgacagca tcccgcacttc ggnngnactg tggaccctt aaatcccagt ntgatcctgc 1260
 ttccaaanct ttactggtn ttcatggcc taccggactt ctgaacctgc atccaaanct 1320
 ttactgctc ttcaagggtt tacctntca ggcaggtaa tgacaattca catcntgcnc 1380
 anacnaaaaa nggctttca gcaggtcaan gcaatttcac atcntgcnc aaaananagt 1440
 ggcgatnggg tgacctntnt ttggcaacga tnggtgacc tatntttgca aac 1493

FIG.15

Appl. No. 09/903,508; Filed: July 13, 2001
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Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

tatgcacatt cgcacgccc ggtgcagcgt ttaggcgcgg ctcAACGGAA gccaacggcc 60
gccacaaaatt gtccggaaag tcgccgaaac tgatccactg gtaccacagc cccataagaa 120
ccccctttaa tattaaaaac cgttttcag ccactttga tcacattgtt tgcaGCCGCC 180
cgttgctGCC atccaaacac cacgcgtccc ccgcaccctt ttacggtgcc cactgcattg 240
gaatttgcattt aaaaacagcct cacgaagtgg attaattttt agagcactca agtcatcatg 300
ctgcaatctc tgcatcatga aatgactccc gttgatacag ggaactcaga ccgcaAGCGG 360
cgaagagtca caagagcgtg tgatgtgtgt cgactctaga ggtatccccgg gtac 414

FIG. 16

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 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

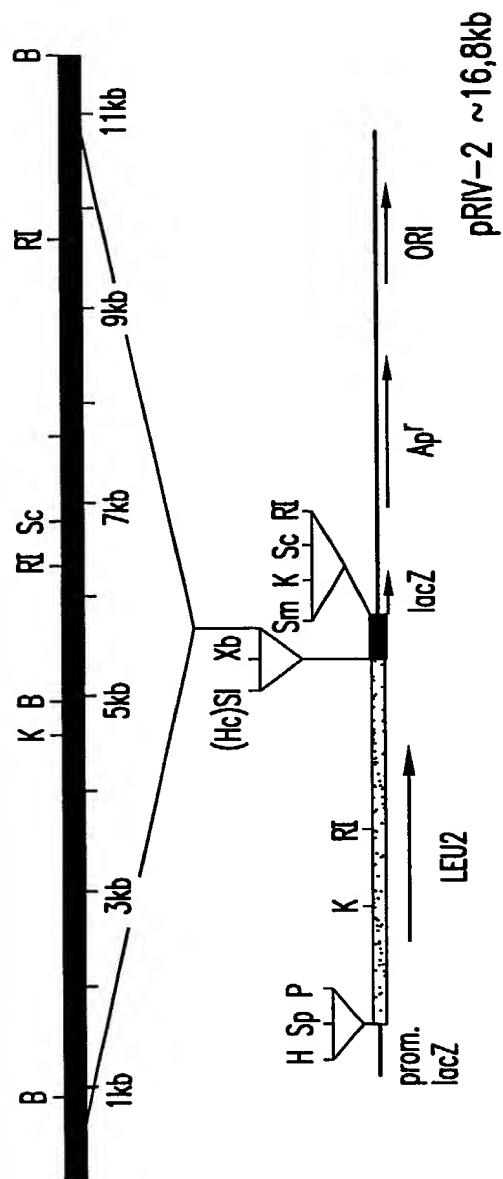


FIG. 17

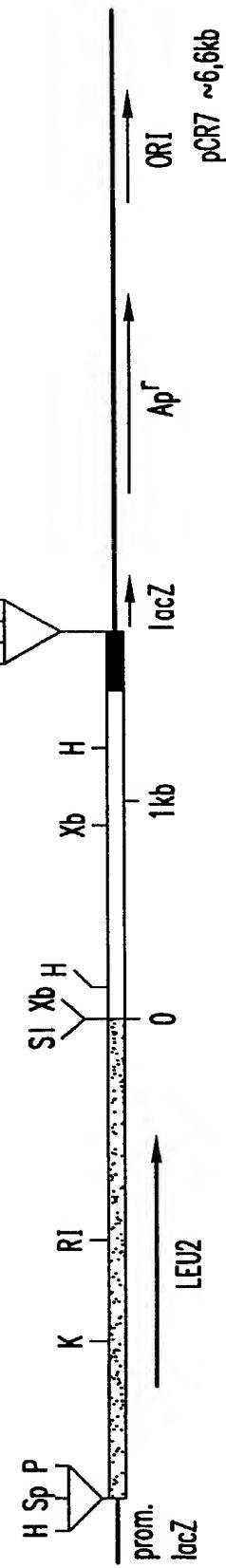


FIG. 18

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel. 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

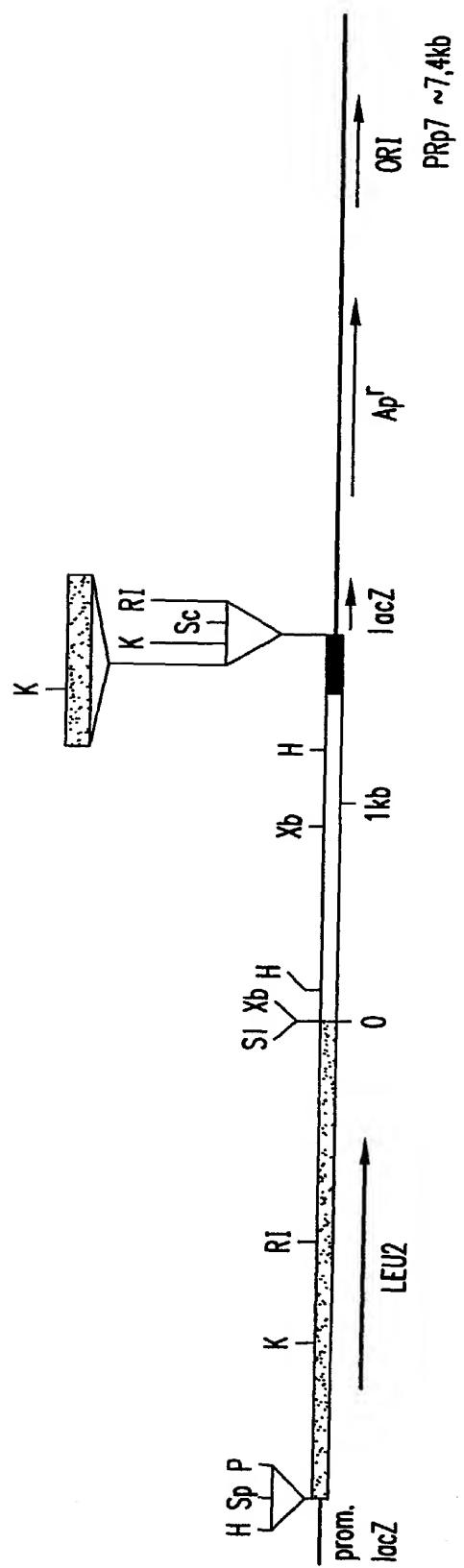


FIG. 19

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No 1533.0830003/MAC/RGM, Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

tgattacgaa ttcgagctcg gtacccgggg atcatgaatg ctatgtttt tacactgaat 60
attttttaa cgattttta ataattttgc aatcatttaa gaaaaaccac aaatggttt 120
ccaaaattta aattgatttt ttagaaaagtc ctaaaaaata gaatcataacc aaataaaagaa 180
caacttaaag tcactatgac aaattcagaa atacaatcgt atgatccgtt catggataaa 240
gctgcaaagt cacaagcaag gctaactaag atcctctaga gtcgactacg tcgttaaggc 300
cgtttctgac agagtaaaat tcttgaggga actttcacca ttatggaaa tggttcaaga 360
aggtattgac ttaaactcca tcaaatggtc aggtcattga gtttttta tttgntgtat 420
ttttttttt ttagagaaaa tcctccaata tataaattag gaatcatagt ttcatgattt 480
tctgtta 487

FIG.20

Appl. No. 09/903,508, Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel. 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

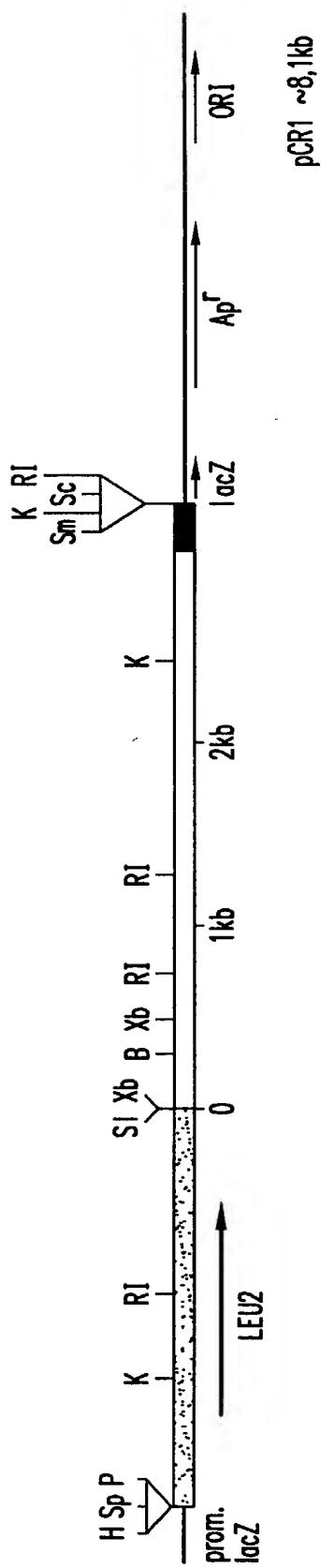


FIG. 21

Appl. No. 09/903,508; Filed: July 13, 2001
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Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

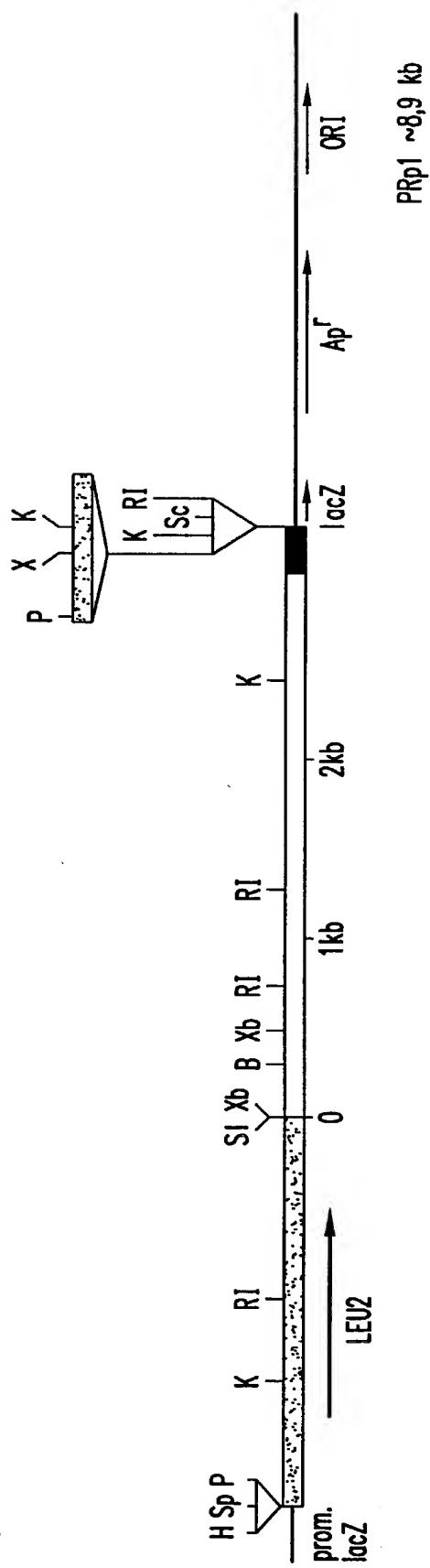


FIG. 22

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

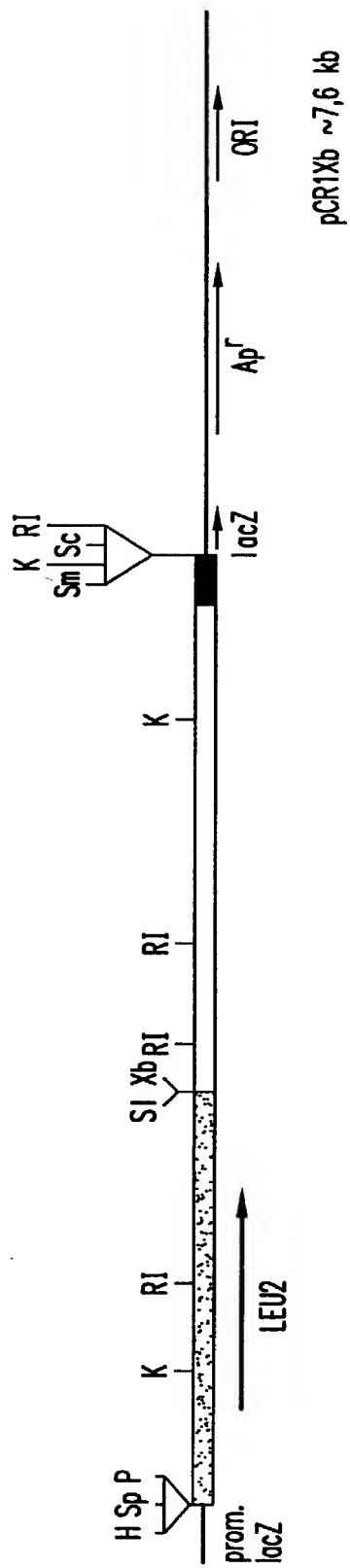


FIG. 23

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

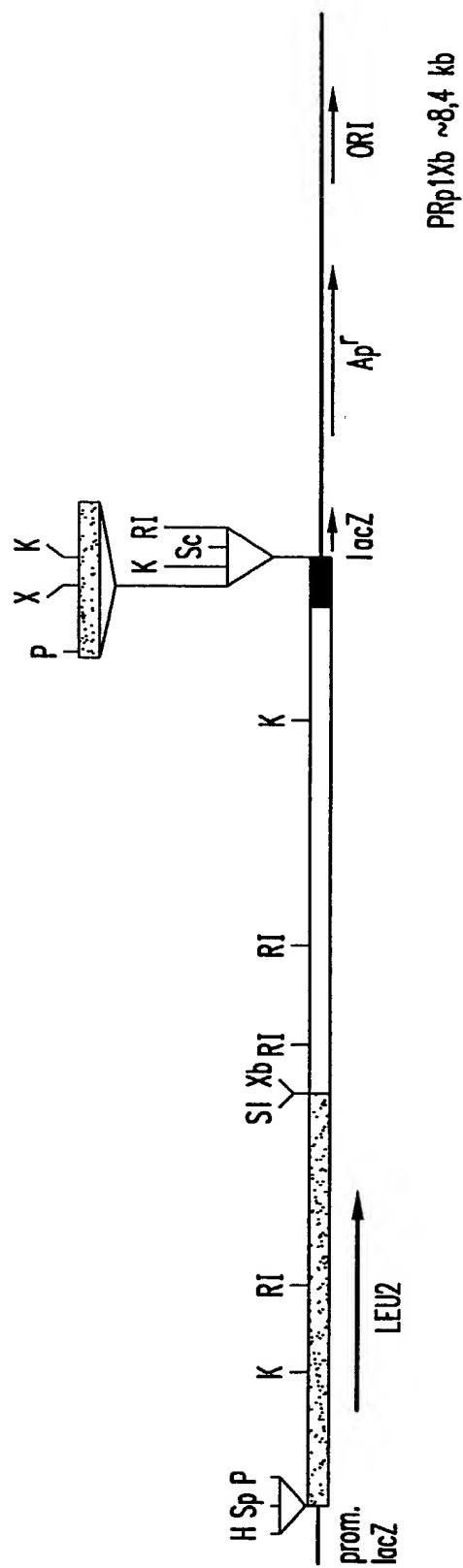


FIG. 24

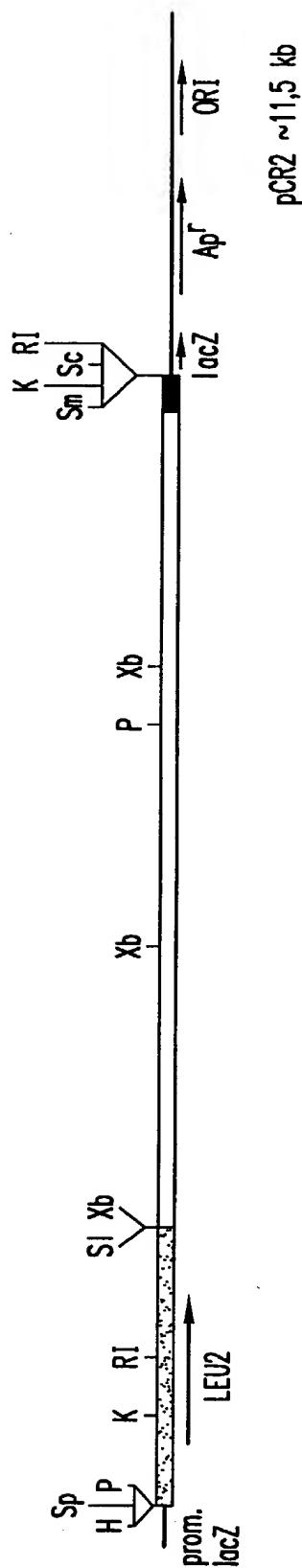


FIG. 25

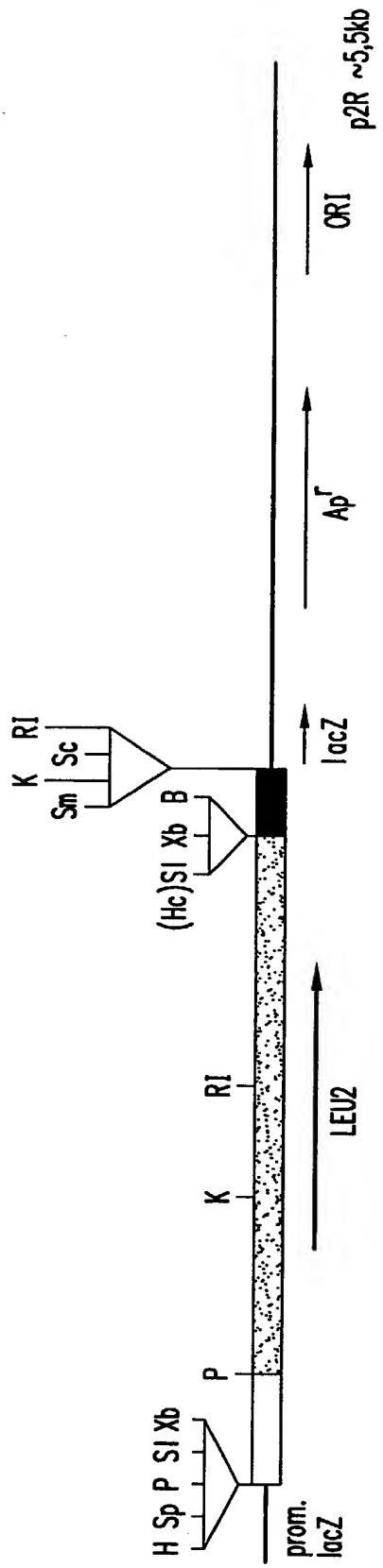


FIG. 26

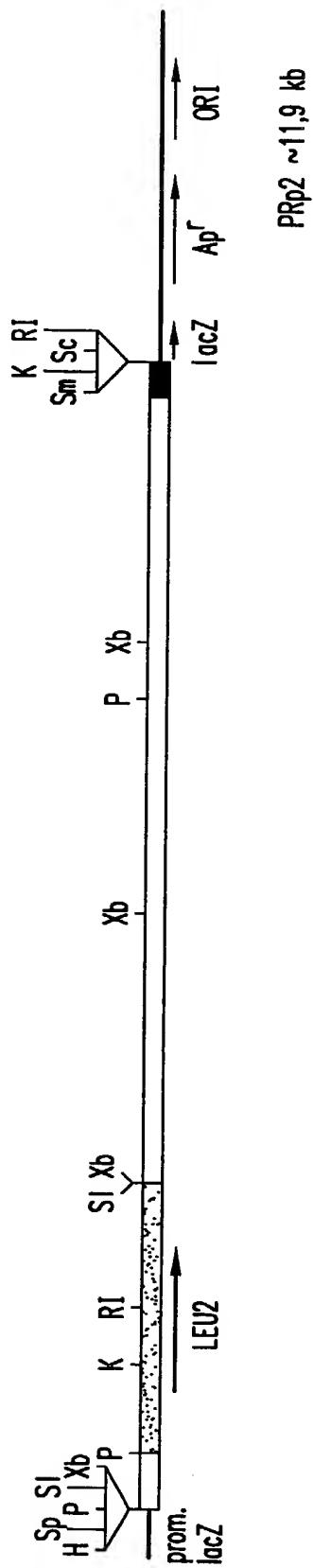
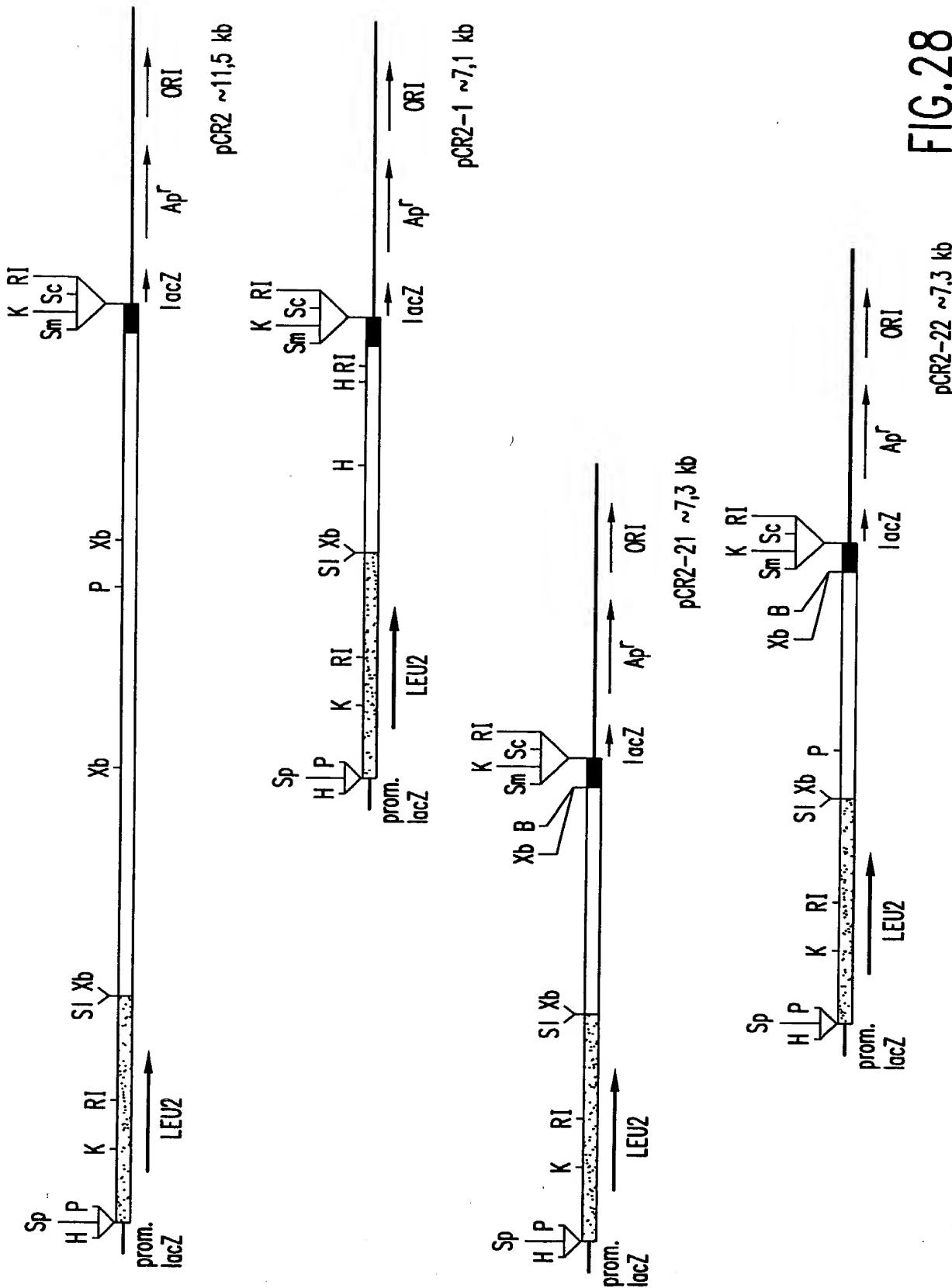


FIG.27



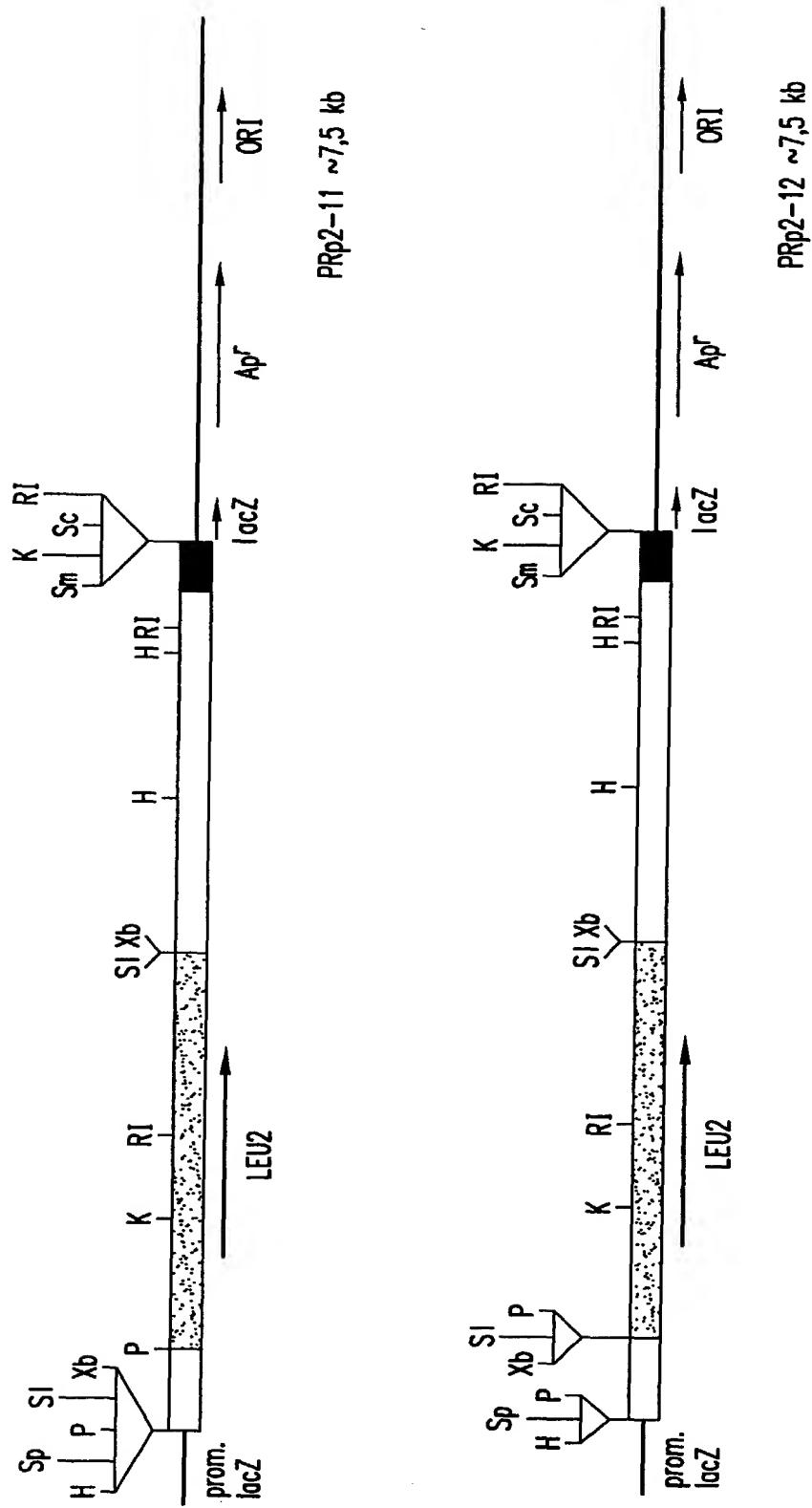


FIG. 29

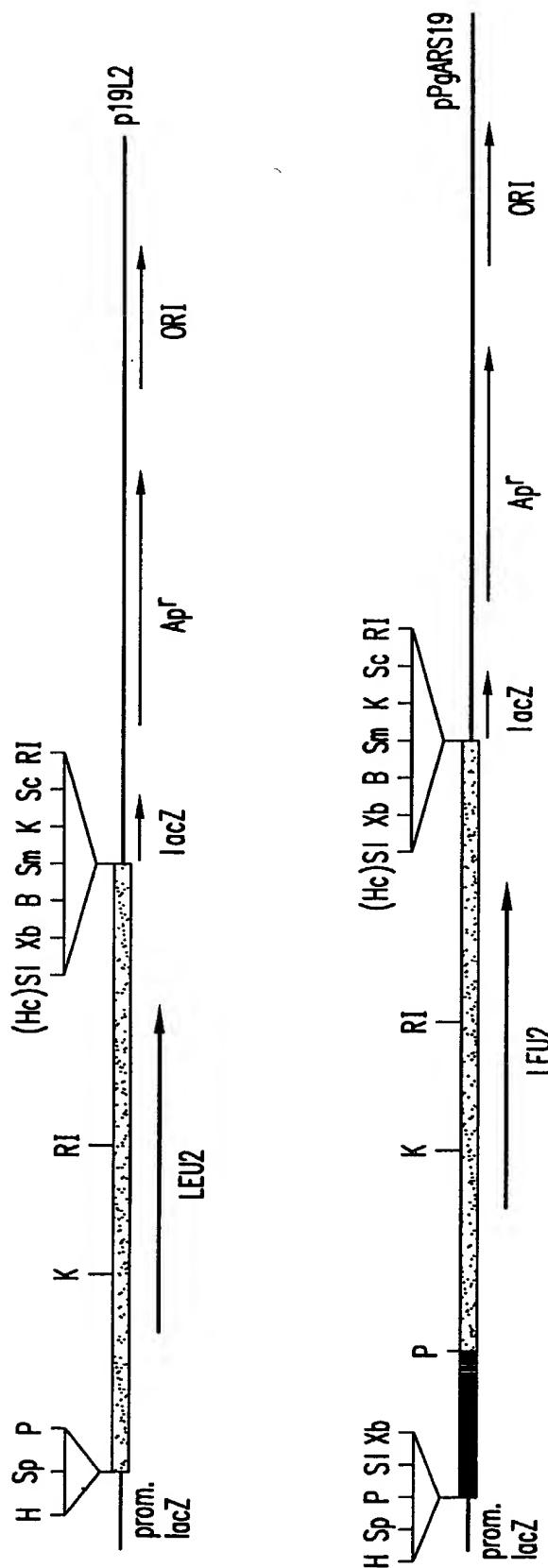


FIG. 30

Appl. No. 09/903,508, Filed: July 13, 2001
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Inventor(s): Abbas *et al.*; Tel: 202/371-2600
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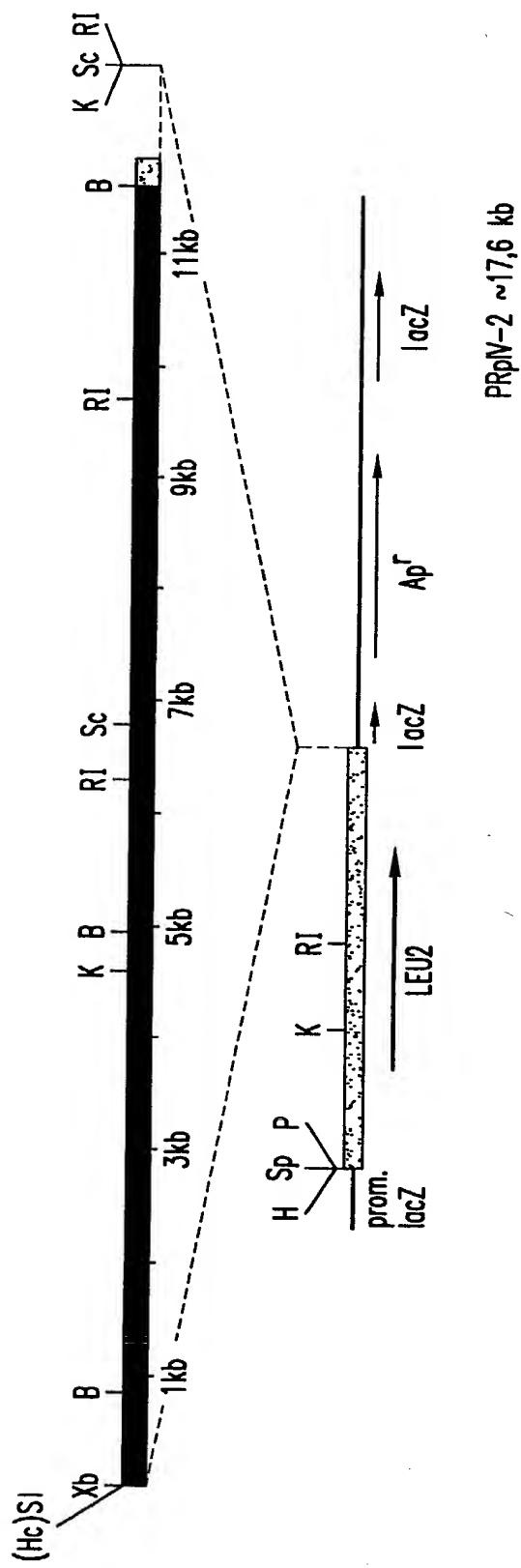
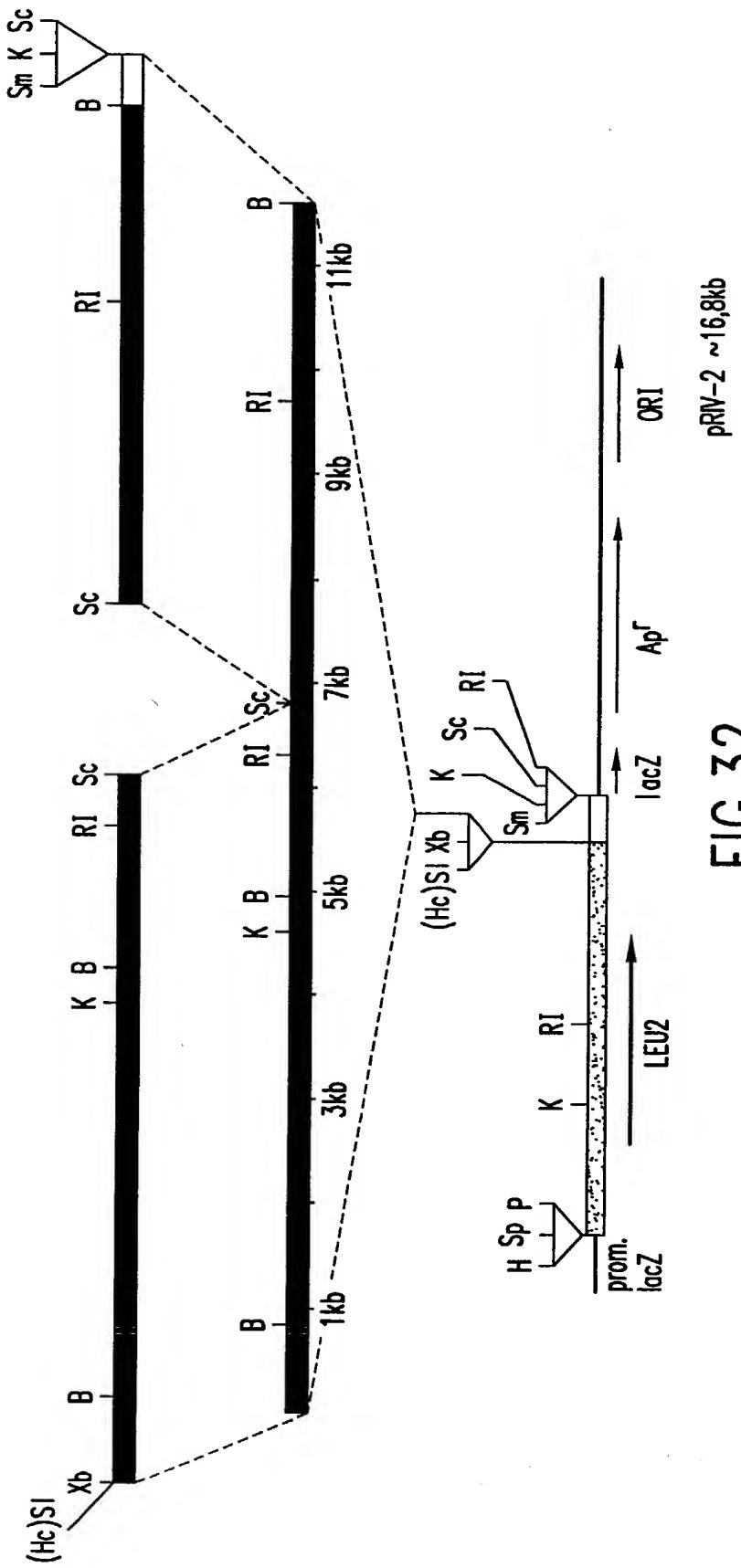


FIG. 31

Appl. No. 09/903,508; Filed: July 13, 2001
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Inventor(s). Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast



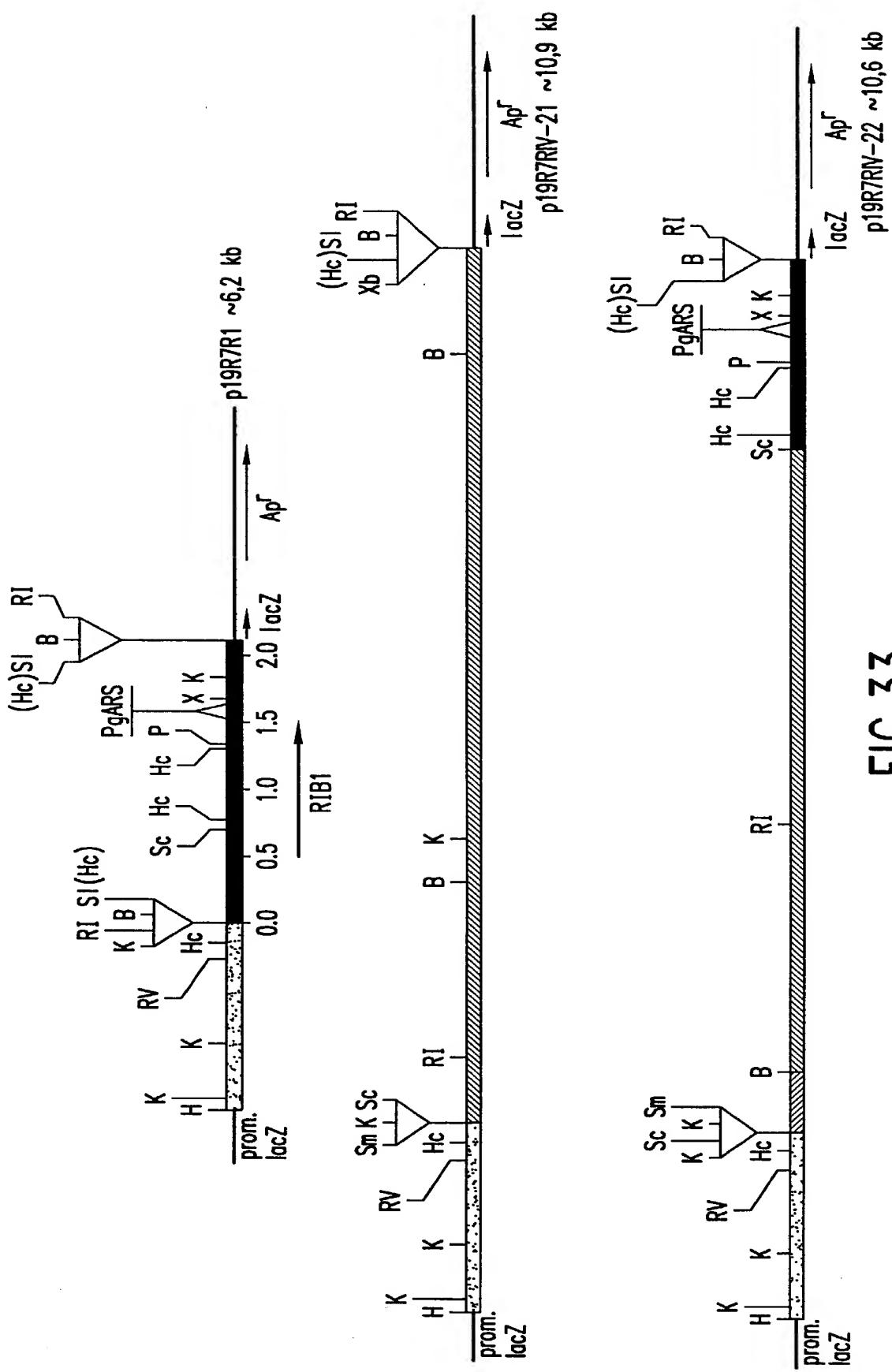


FIG. 33

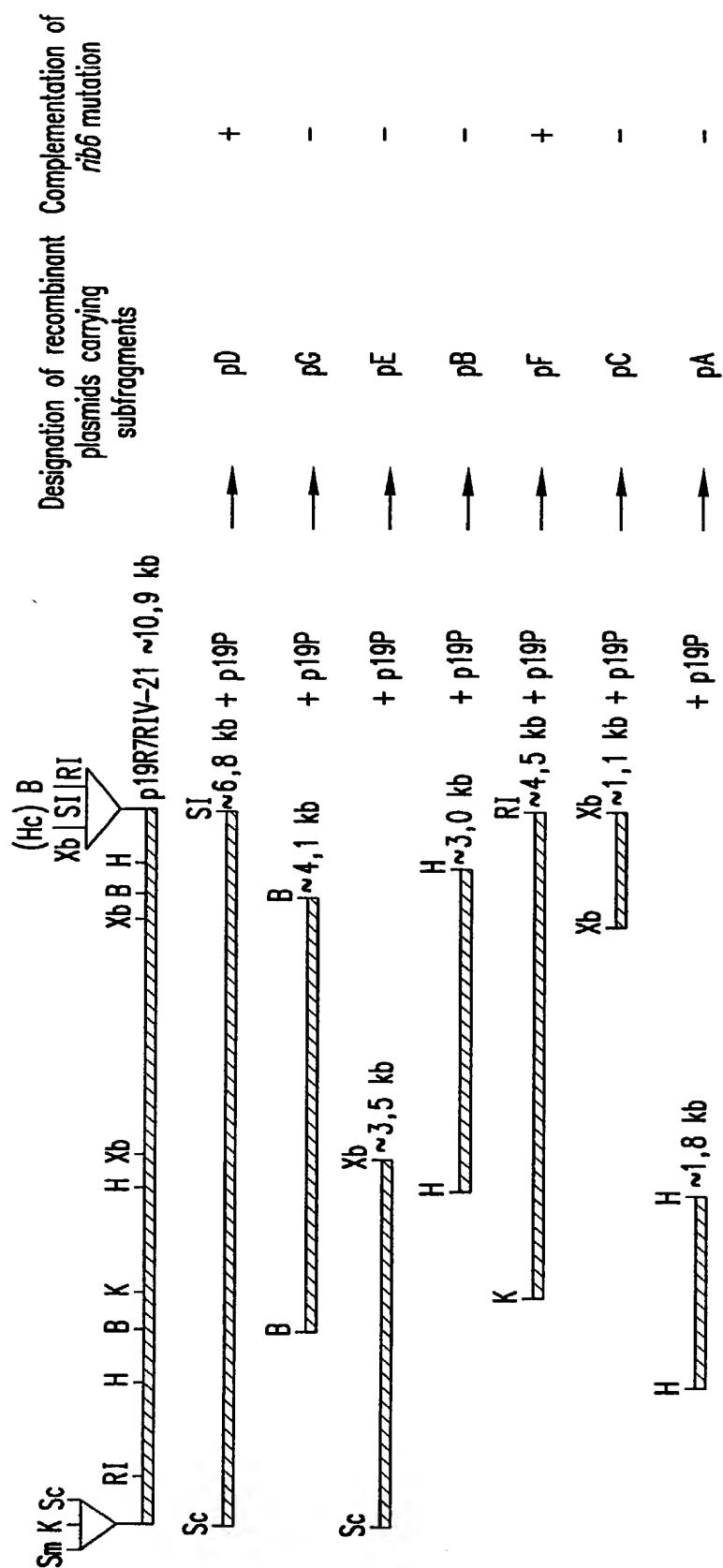


FIG. 34

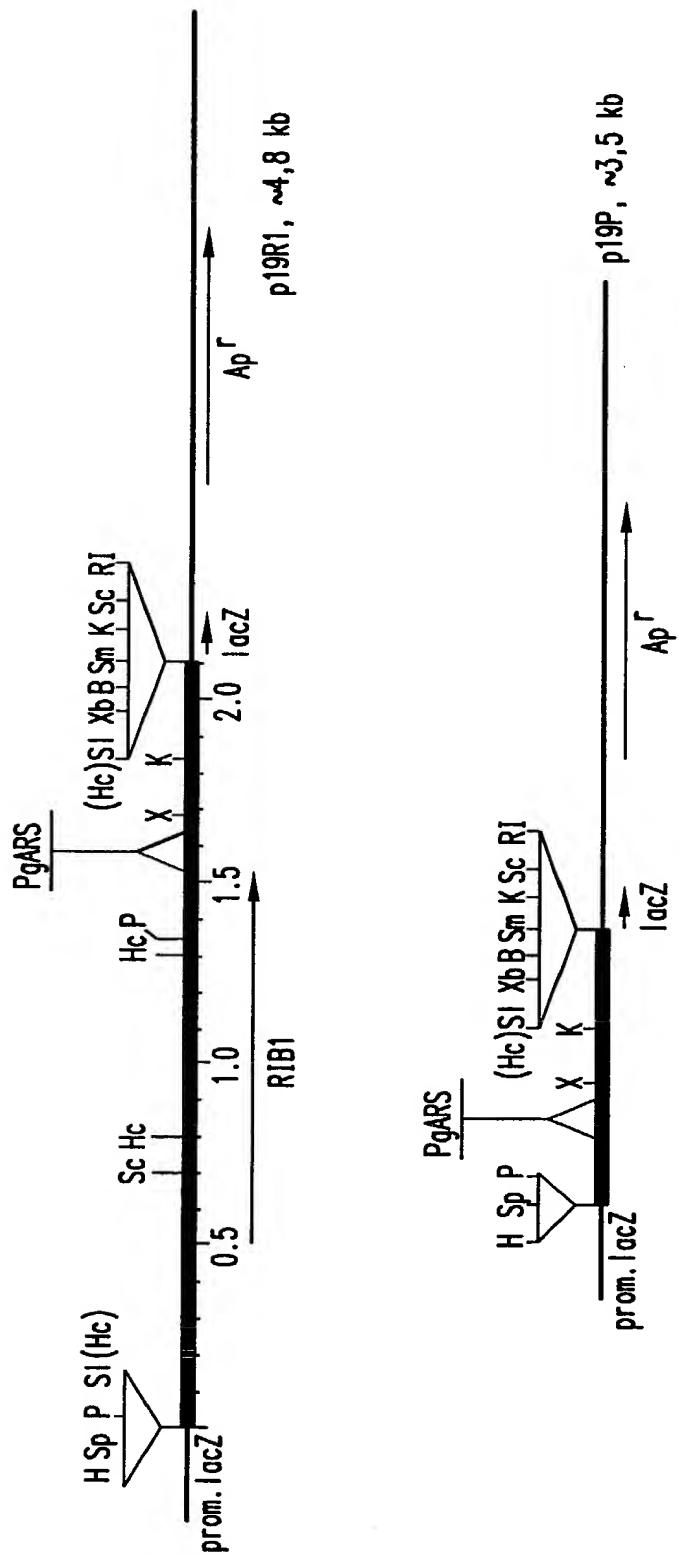


FIG. 35

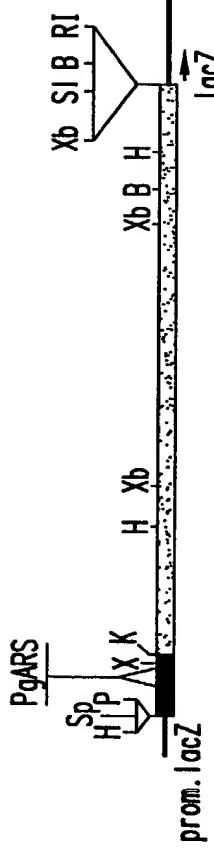


FIG. 36

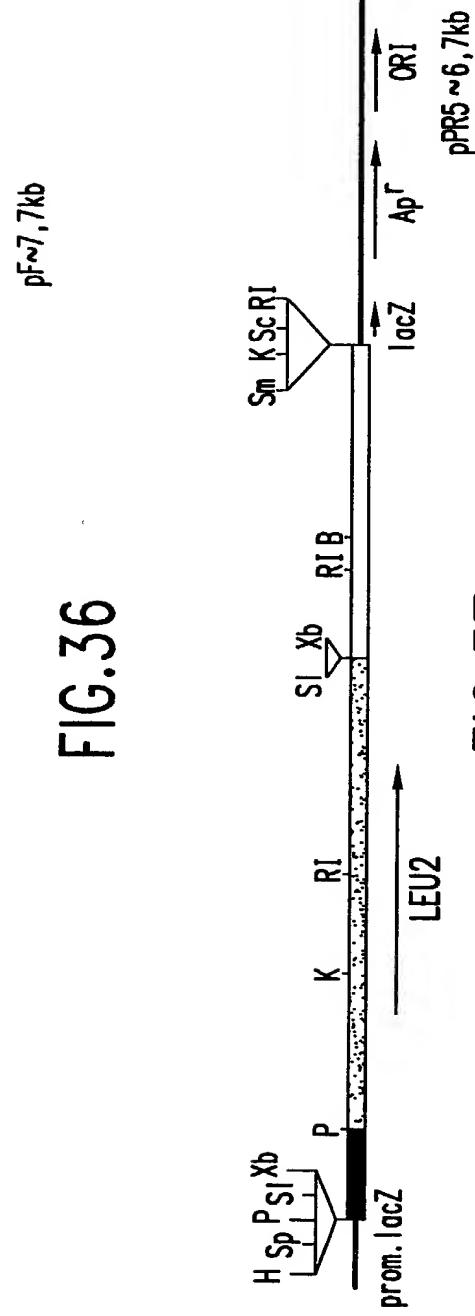


FIG. 37

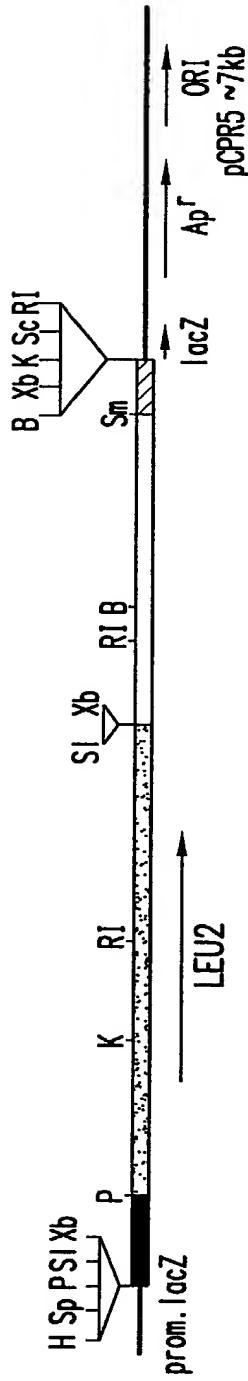


FIG. 38

Appl. No. 09/903,508, Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM, Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

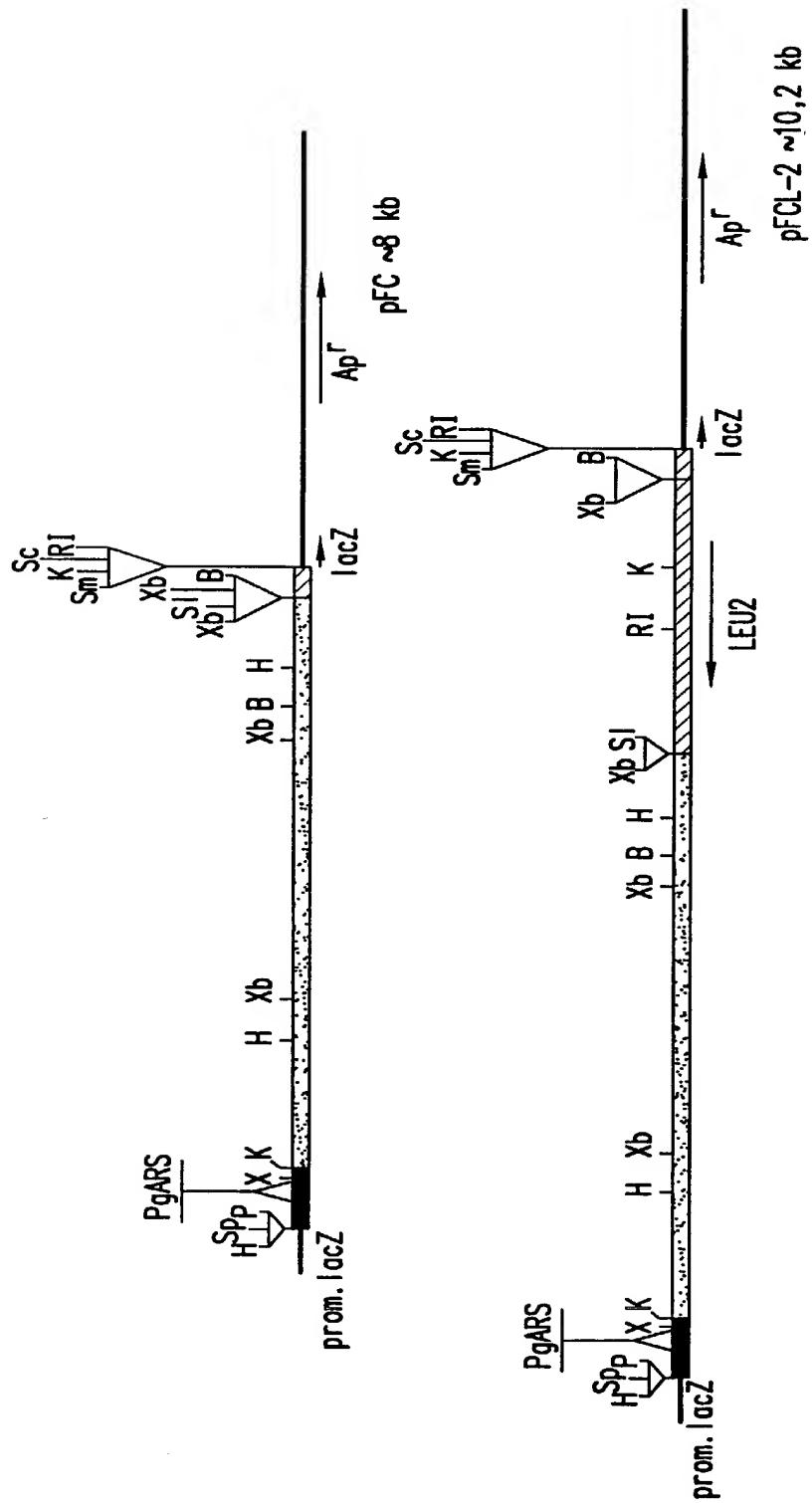


FIG. 39

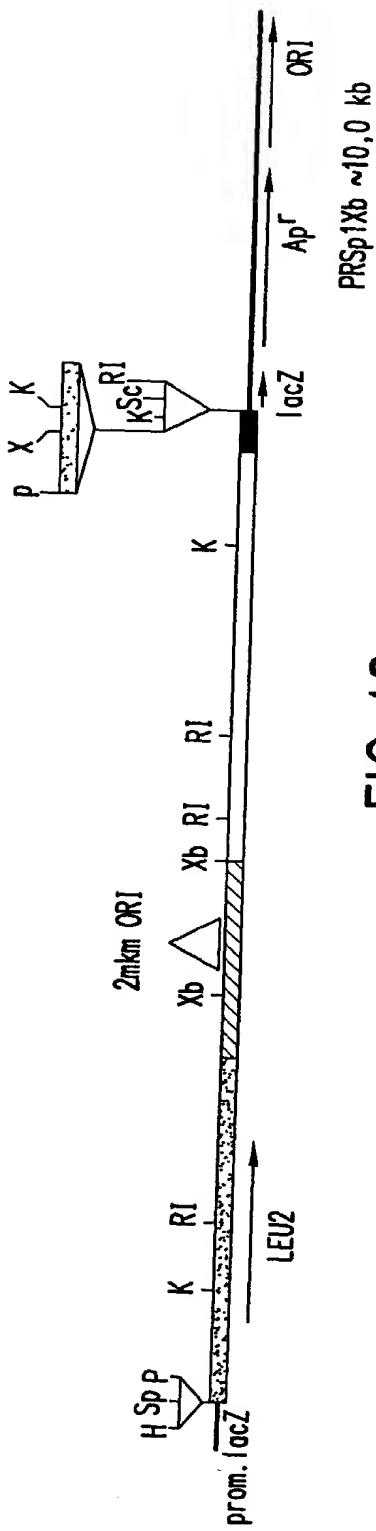


FIG. 40

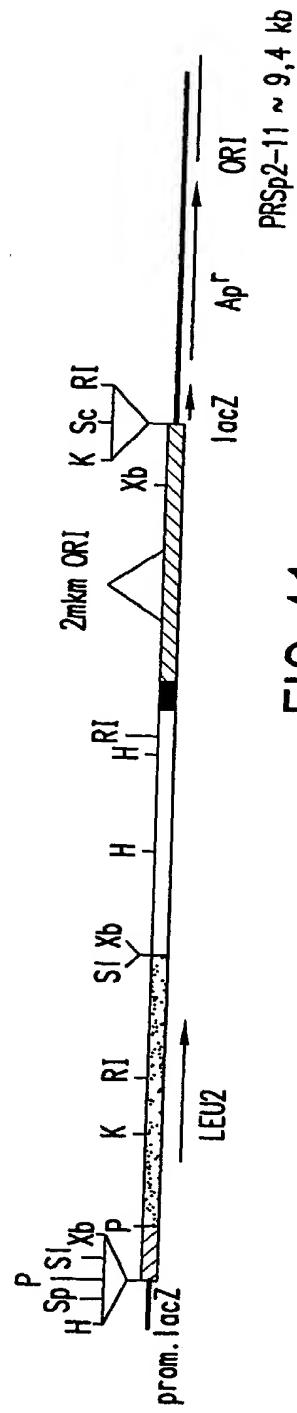


FIG. 41

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

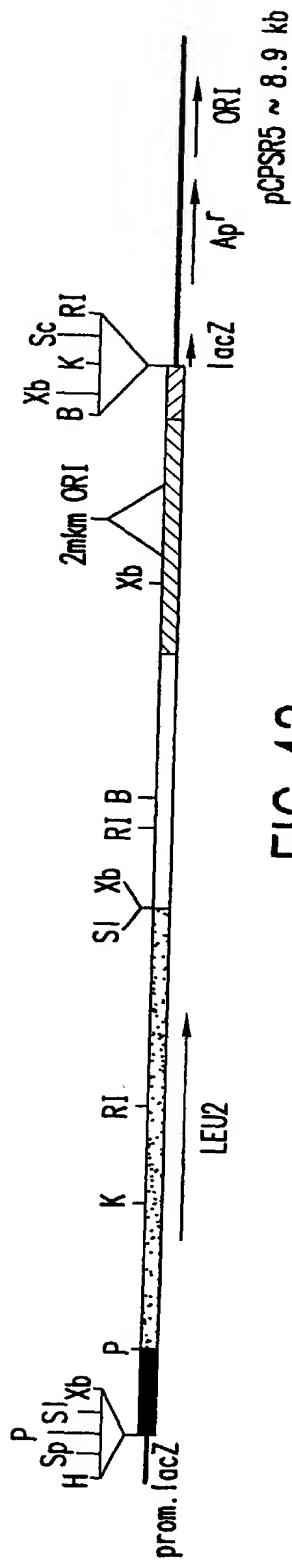


FIG. 42

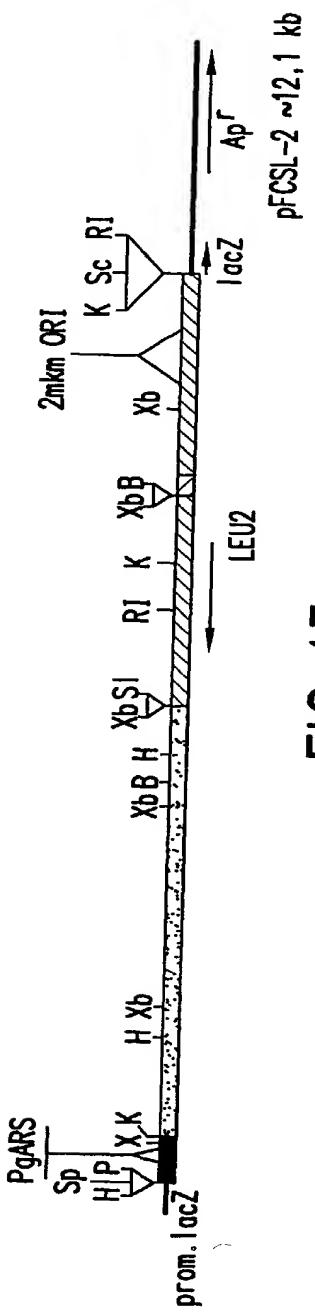


FIG. 43

Appl. No. 09/903,508, Filed: July 13, 2001
Dkt. No. 1533 0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

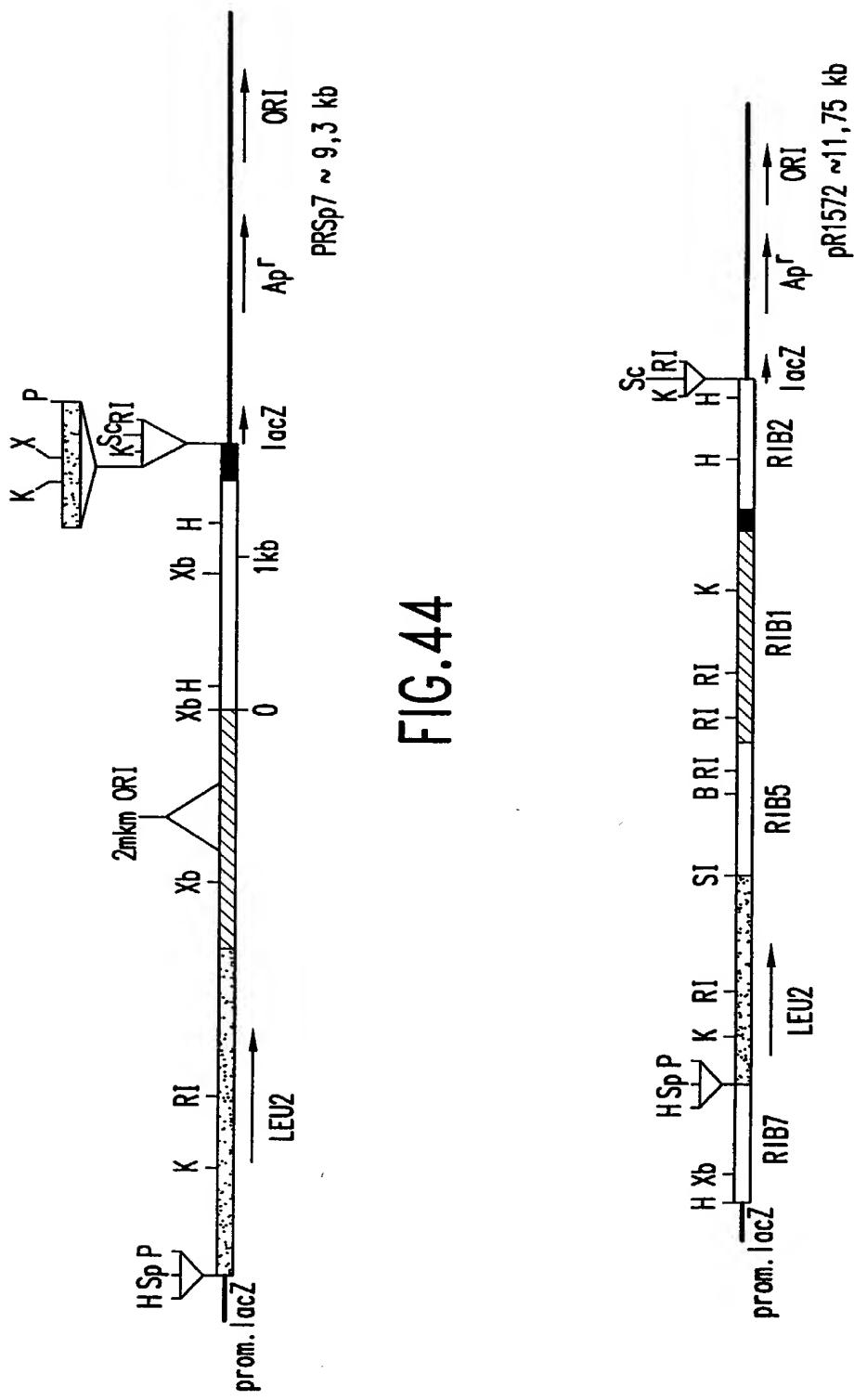


FIG. 44